

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-130404-1

Client Project/Site: GKM - Region 8 (LTM)

Revision: 1

For:

Weston Solutions, Inc.

1435 Garrison Street

Suite 100

Lakewood, Colorado 80215

Attn: Jeff Bryniarski



Authorized for release by:

11/1/2016 2:21:42 PM

Sheila Hoffman, Project Manager II

(912)354-7858 e.3004

sheila.hoffman@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL SAV
200.8	Metals (ICP/MS)	EPA	TAL SAV
2340B-2011	Total Hardness (as CaCO ₃) by calculation	SM	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
6010C	Metals (ICP)	SW846	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV
7471A	Mercury (CVAA)	SW846	TAL SAV
2320B-2011	Alkalinity, Total	SM	TAL SAV
2540 D-2011	Total Suspended Solids (Dried at 103-105°C)	SM	TAL SAV
5310 B-2011	Organic Carbon, Dissolved (DOC)	SM	TAL SAV
5310 B-2011	Organic Carbon, Total (TOC)	SM	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-130404-1	ADW-010_100116	Water	10/01/16 09:45	10/03/16 09:59
680-130404-2	ADW-010_SED_100116	Solid	10/01/16 09:45	10/03/16 09:59
680-130404-3	ADW-021_100116	Water	10/01/16 08:15	10/03/16 09:59
680-130404-4	ADW-021_SED_100116	Solid	10/01/16 08:15	10/03/16 09:59
680-130404-5	ADW-022_093016	Water	09/30/16 08:30	10/03/16 09:59
680-130404-6	ADW-022_SED_093016	Solid	09/30/16 08:30	10/03/16 09:59
680-130404-7	GKM05_093016	Water	09/30/16 16:15	10/03/16 09:59
680-130404-8	GKM05_SED_093016	Solid	09/30/16 16:15	10/03/16 09:59

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TestAmerica Savannah

Definitions/Glossary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Job ID: 680-130404-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Weston Solutions, Inc.

Project: GKM - Region 8 (LTM)

Report Number: 680-130404-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

REVISION

Sample ADW-010_SED_10016 (680-130404-2) was revised to ADW-010_SED_100116 (680-130404-2).

RECEIPT

The samples were received on 10/03/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.7 C.

DISSOLVED METALS (ICP)

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for dissolved metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 10/04/2016 and analyzed on 10/05/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for total metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 10/04/2016 and analyzed on 10/05/2016.

Calcium and Calcium, Dissolved failed the recovery criteria high for the MS of sample ADW-010_100116MS (680-130404-1) in batch 680-452561.

Aluminum, Aluminum, Dissolved, Calcium and Calcium, Dissolved failed the recovery criteria high for the MSD of sample ADW-010_100116MSD (680-130404-1) in batch 680-452561.

Calcium and Calcium, Dissolved failed the recovery criteria low for the MS of sample ADW-021_100116MS (680-130404-3) in batch 680-452561.

Calcium and Calcium, Dissolved failed the recovery criteria low for the MSD of sample ADW-021_100116MSD (680-130404-3) in batch 680-452561.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016

Case Narrative

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Job ID: 680-130404-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-130404-7) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/04/2016 and 10/11/2016 and analyzed on 10/05/2016 and 10/14/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 10/04/2016 and 10/11/2016 and analyzed on 10/05/2016 and 10/14/2016.

Beryllium and Beryllium, Dissolved failed the recovery criteria high for LCS 680-452227/2-A.

Aluminum, Dissolved failed the recovery criteria high for the MSD of sample ADW-010_100116MSD (680-130404-1) in batch 680-452550.

Beryllium and Beryllium, Dissolved failed the recovery criteria high for the MSD of sample ADW-021_100116MSD (680-130404-3) in batch 680-452550.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/11/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 10/11/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICP)

Samples ADW-010_SED_100116 (680-130404-2), ADW-021_SED_100116 (680-130404-4), ADW-022_SED_093016 (680-130404-6) and GKM05_SED_093016 (680-130404-8) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/03/2016 and analyzed on 10/04/2016.

Aluminum, Calcium, Iron and Magnesium failed the recovery criteria low for the MS of sample ADW-010_SED_100116MS (680-130404-2) in batch 680-452370.

Aluminum, Calcium, Iron and Magnesium failed the recovery criteria low for the MSD of sample ADW-010_SED_100116MSD (680-130404-2) in batch 680-452370.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)

Samples ADW-010_SED_100116 (680-130404-2), ADW-021_SED_100116 (680-130404-4), ADW-022_SED_093016 (680-130404-6)

Case Narrative

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Job ID: 680-130404-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

and GKM05_SED_093016 (680-130404-8) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 10/04/2016 and analyzed on 10/06/2016.

Chromium and Vanadium were detected in method blank MB 680-452231/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The continuing calibration verification (CCV) associated with batch 680-452550 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Antimony and Zinc failed the recovery criteria low for the MS of sample ADW-010_SED_100116MS (680-130404-2) in batch 680-452560. Barium failed the recovery criteria high.

Antimony failed the recovery criteria low for the MSD of sample ADW-010_SED_100116MSD (680-130404-2) in batch 680-452560. Barium failed the recovery criteria high.

Refer to the QC report for details.

Sample GKM05_SED_093016 (680-130404-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples ADW-010_SED_100116 (680-130404-2), ADW-021_SED_100116 (680-130404-4), ADW-022_SED_093016 (680-130404-6) and GKM05_SED_093016 (680-130404-8) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 10/03/2016 and analyzed on 10/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ALKALINITY

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 10/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS/MOISTURE

Samples ADW-010_SED_100116 (680-130404-2), ADW-021_SED_100116 (680-130404-4), ADW-022_SED_093016 (680-130404-6) and GKM05_SED_093016 (680-130404-8) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 10/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL HARDNESS (AS CaCO₃) BY CALCULATION

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for total hardness (as CaCO₃) by calculation in accordance with SM 2340B. The samples were analyzed on 10/17/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Job ID: 680-130404-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

DISSOLVED ORGANIC CARBON

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for dissolved organic carbon in accordance with SM 5310B. The samples were analyzed on 10/11/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples ADW-010_100116 (680-130404-1), ADW-021_100116 (680-130404-3), ADW-022_093016 (680-130404-5) and GKM05_093016 (680-130404-7) were analyzed for total organic carbon in accordance with SM 5310B. The samples were analyzed on 10/04/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-010_100116

Lab Sample ID: 680-130404-1

Date Collected: 10/01/16 09:45

Matrix: Water

Date Received: 10/03/16 09:59

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	800	F1	200	24	ug/L		10/04/16 13:00	10/05/16 16:39	1
Calcium	67000		500	25	ug/L		10/04/16 13:00	10/05/16 16:39	1
Iron	700		50	17	ug/L		10/04/16 13:00	10/05/16 16:39	1
Magnesium	9800		500	33	ug/L		10/04/16 13:00	10/05/16 16:39	1
Potassium	2800		1000	17	ug/L		10/04/16 13:00	10/05/16 16:39	1
Sodium	17000		1000	480	ug/L		10/04/16 13:00	10/05/16 16:39	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	33	J	200	24	ug/L		10/04/16 13:00	10/05/16 17:41	1
Calcium, Dissolved	66000		500	25	ug/L		10/04/16 13:00	10/05/16 17:41	1
Iron, Dissolved	17	U	50	17	ug/L		10/04/16 13:00	10/05/16 17:41	1
Magnesium, Dissolved	9600		500	33	ug/L		10/04/16 13:00	10/05/16 17:41	1
Potassium, Dissolved	2600		1000	17	ug/L		10/04/16 13:00	10/05/16 17:41	1
Sodium, Dissolved	17000		1000	480	ug/L		10/04/16 13:00	10/05/16 17:41	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		10/04/16 13:00	10/05/16 17:55	1
Arsenic	0.89	J	1.0	0.37	ug/L		10/04/16 13:00	10/05/16 17:55	1
Barium	87		2.0	0.14	ug/L		10/04/16 13:00	10/05/16 17:55	1
Beryllium	0.15	U *	0.40	0.15	ug/L		10/04/16 13:00	10/05/16 17:55	1
Cadmium	0.043	U	0.50	0.043	ug/L		10/04/16 13:00	10/05/16 17:55	1
Chromium	1.0	U	2.0	1.0	ug/L		10/04/16 13:00	10/05/16 17:55	1
Cobalt	0.58		0.40	0.12	ug/L		10/04/16 13:00	10/05/16 17:55	1
Copper	3.3	J	5.0	0.50	ug/L		10/04/16 13:00	10/05/16 17:55	1
Lead	2.9		0.30	0.060	ug/L		10/04/16 13:00	10/05/16 17:55	1
Manganese	120		2.5	1.2	ug/L		10/11/16 13:38	10/14/16 08:13	1
Molybdenum	1.2		1.0	0.45	ug/L		10/04/16 13:00	10/05/16 17:55	1
Nickel	1.5	J	5.0	0.40	ug/L		10/04/16 13:00	10/05/16 17:55	1
Selenium	0.58	U	2.0	0.58	ug/L		10/04/16 13:00	10/05/16 17:55	1
Silver	0.10	U	1.0	0.10	ug/L		10/04/16 13:00	10/05/16 17:55	1
Thallium	0.10	U	0.20	0.10	ug/L		10/04/16 13:00	10/05/16 17:55	1
Vanadium	1.5		1.0	0.30	ug/L		10/04/16 13:00	10/05/16 17:55	1
Zinc	31		20	2.8	ug/L		10/04/16 13:00	10/05/16 17:55	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:32	1
Arsenic, Dissolved	0.64	J	1.0	0.37	ug/L		10/04/16 13:00	10/05/16 18:32	1
Barium, Dissolved	71		2.0	0.14	ug/L		10/04/16 13:00	10/05/16 18:32	1
Beryllium, Dissolved	0.15	U * ^	0.40	0.15	ug/L		10/04/16 13:00	10/05/16 18:32	1
Cadmium, Dissolved	0.043	U	0.50	0.043	ug/L		10/04/16 13:00	10/05/16 18:32	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		10/04/16 13:00	10/05/16 18:32	1
Cobalt, Dissolved	0.13	J	0.40	0.12	ug/L		10/04/16 13:00	10/05/16 18:32	1
Copper, Dissolved	1.4	J	5.0	0.50	ug/L		10/04/16 13:00	10/05/16 18:32	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		10/04/16 13:00	10/05/16 18:32	1
Manganese, Dissolved	24		2.5	1.2	ug/L		10/11/16 13:38	10/14/16 08:29	1
Molybdenum, Dissolved	1.2		1.0	0.45	ug/L		10/04/16 13:00	10/05/16 18:32	1
Nickel, Dissolved	1.4	J	5.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:32	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-010_100116

Lab Sample ID: 680-130404-1

Date Collected: 10/01/16 09:45

Matrix: Water

Date Received: 10/03/16 09:59

Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		10/04/16 13:00	10/05/16 18:32	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		10/04/16 13:00	10/05/16 18:32	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		10/04/16 13:00	10/05/16 18:32	1
Vanadium, Dissolved	0.38	J	1.0	0.30	ug/L		10/04/16 13:00	10/05/16 18:32	1
Zinc, Dissolved	4.0	J	20	2.8	ug/L		10/04/16 13:00	10/05/16 18:32	1
Aluminum, Dissolved	32		10	4.6	ug/L		10/04/16 13:00	10/05/16 18:32	1

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	210		3.3	3.3	mg/L			10/17/16 14:09	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:09	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.5		1.0	0.50	mg/L			10/04/16 18:31	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	110		5.0	5.0	mg/L			10/04/16 19:00	1

Total Suspended Solids

			4.0	4.0	mg/L			10/04/16 07:56	1
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General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.0		1.0	0.50	mg/L			10/11/16 12:36	1

Client Sample ID: ADW-010_SED_100116

Lab Sample ID: 680-130404-2

Date Collected: 10/01/16 09:45

Matrix: Solid

Date Received: 10/03/16 09:59

Percent Solids: 78.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7300		22	3.3	mg/Kg	✉	10/03/16 13:42	10/04/16 17:40	1
Calcium	5300		54	5.6	mg/Kg	✉	10/03/16 13:42	10/04/16 17:40	1
Iron	11000		22	5.7	mg/Kg	✉	10/03/16 13:42	10/04/16 17:40	1
Magnesium	1900	F1	54	9.6	mg/Kg	✉	10/03/16 13:42	10/04/16 17:40	1
Potassium	1100		110	2.7	mg/Kg	✉	10/03/16 13:42	10/04/16 17:40	1
Sodium	110	J	220	52	mg/Kg	✉	10/03/16 13:42	10/04/16 17:40	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.11	U F1	1.1	0.11	mg/Kg	✉	10/04/16 13:24	10/06/16 03:05	1
Arsenic	3.7		0.32	0.11	mg/Kg	✉	10/04/16 13:24	10/06/16 03:05	1
Barium	190		0.54	0.065	mg/Kg	✉	10/04/16 13:24	10/06/16 03:05	1
Beryllium	0.57		0.054	0.016	mg/Kg	✉	10/04/16 13:24	10/06/16 03:05	1
Cadmium	0.14		0.054	0.016	mg/Kg	✉	10/04/16 13:24	10/06/16 03:05	1
Chromium	5.1	B	1.1	0.12	mg/Kg	✉	10/04/16 13:24	10/06/16 03:05	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-010_SED_100116

Lab Sample ID: 680-130404-2

Date Collected: 10/01/16 09:45

Matrix: Solid

Date Received: 10/03/16 09:59

Percent Solids: 78.7

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	5.0		0.054	0.011	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Copper	11		0.54	0.14	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Lead	11		0.22	0.054	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Manganese	280		1.1	0.13	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Molybdenum	0.39 J		1.1	0.086	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Nickel	5.8		1.1	0.28	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Selenium	4.1		0.54	0.11	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Silver	0.046 J		0.11	0.011	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Thallium	0.099 J		0.11	0.054	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Vanadium	14 B		0.54	0.29	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1
Zinc	53		2.2	1.1	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:05	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0089	U	0.022	0.0089	mg/Kg	⊗	10/03/16 14:13	10/04/16 11:30	1

Client Sample ID: ADW-021_100116

Lab Sample ID: 680-130404-3

Date Collected: 10/01/16 08:15

Matrix: Water

Date Received: 10/03/16 09:59

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	730		200	24	ug/L	10/04/16 13:00	10/05/16 17:05		1
Calcium	65000		500	25	ug/L	10/04/16 13:00	10/05/16 17:05		1
Iron	650		50	17	ug/L	10/04/16 13:00	10/05/16 17:05		1
Magnesium	9700		500	33	ug/L	10/04/16 13:00	10/05/16 17:05		1
Potassium	2700		1000	17	ug/L	10/04/16 13:00	10/05/16 17:05		1
Sodium	16000		1000	480	ug/L	10/04/16 13:00	10/05/16 17:05		1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	33 J		200	24	ug/L	10/04/16 13:00	10/05/16 17:46		1
Calcium, Dissolved	64000		500	25	ug/L	10/04/16 13:00	10/05/16 17:46		1
Iron, Dissolved	17 U		50	17	ug/L	10/04/16 13:00	10/05/16 17:46		1
Magnesium, Dissolved	9500		500	33	ug/L	10/04/16 13:00	10/05/16 17:46		1
Potassium, Dissolved	2600		1000	17	ug/L	10/04/16 13:00	10/05/16 17:46		1
Sodium, Dissolved	16000		1000	480	ug/L	10/04/16 13:00	10/05/16 17:46		1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L	10/04/16 13:00	10/05/16 18:19		1
Arsenic	1.4		1.0	0.37	ug/L	10/04/16 13:00	10/05/16 18:19		1
Barium	81		2.0	0.14	ug/L	10/04/16 13:00	10/05/16 18:19		1
Beryllium	0.15	U F1 * ^	0.40	0.15	ug/L	10/04/16 13:00	10/05/16 18:19		1
Cadmium	0.043	U	0.50	0.043	ug/L	10/04/16 13:00	10/05/16 18:19		1
Chromium	1.0	U	2.0	1.0	ug/L	10/04/16 13:00	10/05/16 18:19		1
Cobalt	0.48		0.40	0.12	ug/L	10/04/16 13:00	10/05/16 18:19		1
Copper	2.7 J		5.0	0.50	ug/L	10/04/16 13:00	10/05/16 18:19		1
Lead	2.3		0.30	0.060	ug/L	10/04/16 13:00	10/05/16 18:19		1
Manganese	96		2.5	1.2	ug/L	10/11/16 13:38	10/14/16 08:17		1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-021_100116

Lab Sample ID: 680-130404-3

Matrix: Water

Date Collected: 10/01/16 08:15

Date Received: 10/03/16 09:59

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	1.2		1.0	0.45	ug/L		10/04/16 13:00	10/05/16 18:19	1
Nickel	1.3 J		5.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:19	1
Selenium	0.58 U		2.0	0.58	ug/L		10/04/16 13:00	10/05/16 18:19	1
Silver	0.10 U		1.0	0.10	ug/L		10/04/16 13:00	10/05/16 18:19	1
Thallium	0.10 U		0.20	0.10	ug/L		10/04/16 13:00	10/05/16 18:19	1
Vanadium	1.4		1.0	0.30	ug/L		10/04/16 13:00	10/05/16 18:19	1
Zinc	29		20	2.8	ug/L		10/04/16 13:00	10/05/16 18:19	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:34	1
Arsenic, Dissolved	0.84 J		1.0	0.37	ug/L		10/04/16 13:00	10/05/16 18:34	1
Barium, Dissolved	71		2.0	0.14	ug/L		10/04/16 13:00	10/05/16 18:34	1
Beryllium, Dissolved	0.15 U * ^		0.40	0.15	ug/L		10/04/16 13:00	10/05/16 18:34	1
Cadmium, Dissolved	0.043 U		0.50	0.043	ug/L		10/04/16 13:00	10/05/16 18:34	1
Chromium, Dissolved	1.0 U		2.0	1.0	ug/L		10/04/16 13:00	10/05/16 18:34	1
Cobalt, Dissolved	0.13 J		0.40	0.12	ug/L		10/04/16 13:00	10/05/16 18:34	1
Copper, Dissolved	1.6 J		5.0	0.50	ug/L		10/04/16 13:00	10/05/16 18:34	1
Lead, Dissolved	0.060 U		0.30	0.060	ug/L		10/04/16 13:00	10/05/16 18:34	1
Manganese, Dissolved	15		2.5	1.2	ug/L		10/11/16 13:38	10/14/16 08:34	1
Molybdenum, Dissolved	1.2		1.0	0.45	ug/L		10/04/16 13:00	10/05/16 18:34	1
Nickel, Dissolved	0.99 J		5.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:34	1
Selenium, Dissolved	0.58 U		2.0	0.58	ug/L		10/04/16 13:00	10/05/16 18:34	1
Silver, Dissolved	0.10 U		1.0	0.10	ug/L		10/04/16 13:00	10/05/16 18:34	1
Thallium, Dissolved	0.10 U		0.20	0.10	ug/L		10/04/16 13:00	10/05/16 18:34	1
Vanadium, Dissolved	0.37 J		1.0	0.30	ug/L		10/04/16 13:00	10/05/16 18:34	1
Zinc, Dissolved	5.0 J		20	2.8	ug/L		10/04/16 13:00	10/05/16 18:34	1
Aluminum, Dissolved	33		10	4.6	ug/L		10/04/16 13:00	10/05/16 18:34	1

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	200		3.3	3.3	mg/L			10/17/16 14:09	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080 U		0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:22	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080 U		0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.5		1.0	0.50	mg/L			10/04/16 18:49	1

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	110		5.0	5.0	mg/L			10/04/16 19:08	1

Total Suspended Solids

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	72		4.0	4.0	mg/L			10/04/16 07:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.3		1.0	0.50	mg/L			10/11/16 13:21	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-021_SED_100116

Date Collected: 10/01/16 08:15

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-4

Matrix: Solid

Percent Solids: 79.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3200		22	3.4	mg/Kg	⊗	10/03/16 13:42	10/04/16 18:14	1
Calcium	3100		55	5.7	mg/Kg	⊗	10/03/16 13:42	10/04/16 18:14	1
Iron	5400		22	5.8	mg/Kg	⊗	10/03/16 13:42	10/04/16 18:14	1
Magnesium	890		55	9.8	mg/Kg	⊗	10/03/16 13:42	10/04/16 18:14	1
Potassium	510		110	2.7	mg/Kg	⊗	10/03/16 13:42	10/04/16 18:14	1
Sodium	57 J		220	53	mg/Kg	⊗	10/03/16 13:42	10/04/16 18:14	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.11	U	1.1	0.11	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Arsenic	2.9		0.33	0.11	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Barium	130		0.55	0.066	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Beryllium	0.26		0.055	0.016	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Cadmium	0.11		0.055	0.016	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Chromium	2.3 B		1.1	0.12	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Cobalt	2.5		0.055	0.011	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Copper	6.6		0.55	0.14	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Lead	11		0.22	0.055	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Manganese	220		1.1	0.13	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Molybdenum	0.24 J		1.1	0.088	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Nickel	2.9		1.1	0.29	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Selenium	2.7		0.55	0.11	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Silver	0.047 J		0.11	0.011	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Thallium	0.055 U		0.11	0.055	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Vanadium	6.9 B		0.55	0.30	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1
Zinc	60		2.2	1.1	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:31	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0092	U	0.023	0.0092	mg/Kg	⊗	10/03/16 14:13	10/04/16 11:53	1

Client Sample ID: ADW-022_093016

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-5

Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	790		200	24	ug/L	⊗	10/04/16 13:00	10/05/16 17:31	1
Calcium	60000		500	25	ug/L	⊗	10/04/16 13:00	10/05/16 17:31	1
Iron	700		50	17	ug/L	⊗	10/04/16 13:00	10/05/16 17:31	1
Magnesium	8900		500	33	ug/L	⊗	10/04/16 13:00	10/05/16 17:31	1
Potassium	2600		1000	17	ug/L	⊗	10/04/16 13:00	10/05/16 17:31	1
Sodium	14000		1000	480	ug/L	⊗	10/04/16 13:00	10/05/16 17:31	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	30 J		200	24	ug/L	⊗	10/04/16 13:00	10/05/16 18:02	1
Calcium, Dissolved	60000		500	25	ug/L	⊗	10/04/16 13:00	10/05/16 18:02	1
Iron, Dissolved	17 U		50	17	ug/L	⊗	10/04/16 13:00	10/05/16 18:02	1
Magnesium, Dissolved	8800		500	33	ug/L	⊗	10/04/16 13:00	10/05/16 18:02	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-022_093016

Lab Sample ID: 680-130404-5

Matrix: Water

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium, Dissolved	2400		1000	17	ug/L		10/04/16 13:00	10/05/16 18:02	1
Sodium, Dissolved	14000		1000	480	ug/L		10/04/16 13:00	10/05/16 18:02	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:27	1
Arsenic	1.1		1.0	0.37	ug/L		10/04/16 13:00	10/05/16 18:27	1
Barium	78		2.0	0.14	ug/L		10/04/16 13:00	10/05/16 18:27	1
Beryllium	0.15	U * ^	0.40	0.15	ug/L		10/04/16 13:00	10/05/16 18:27	1
Cadmium	0.043	U	0.50	0.043	ug/L		10/04/16 13:00	10/05/16 18:27	1
Chromium	1.0	U	2.0	1.0	ug/L		10/04/16 13:00	10/05/16 18:27	1
Cobalt	0.48		0.40	0.12	ug/L		10/04/16 13:00	10/05/16 18:27	1
Copper	2.8	J	5.0	0.50	ug/L		10/04/16 13:00	10/05/16 18:27	1
Lead	2.4		0.30	0.060	ug/L		10/04/16 13:00	10/05/16 18:27	1
Manganese	100		2.5	1.2	ug/L		10/11/16 13:38	10/14/16 08:21	1
Molybdenum	1.0		1.0	0.45	ug/L		10/04/16 13:00	10/05/16 18:27	1
Nickel	1.3	J	5.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:27	1
Selenium	0.58	U	2.0	0.58	ug/L		10/04/16 13:00	10/05/16 18:27	1
Silver	0.10	U	1.0	0.10	ug/L		10/04/16 13:00	10/05/16 18:27	1
Thallium	0.10	U	0.20	0.10	ug/L		10/04/16 13:00	10/05/16 18:27	1
Vanadium	1.5		1.0	0.30	ug/L		10/04/16 13:00	10/05/16 18:27	1
Zinc	31		20	2.8	ug/L		10/04/16 13:00	10/05/16 18:27	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.66	J	1.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:37	1
Arsenic, Dissolved	1.2		1.0	0.37	ug/L		10/04/16 13:00	10/05/16 18:37	1
Barium, Dissolved	70		2.0	0.14	ug/L		10/04/16 13:00	10/05/16 18:37	1
Beryllium, Dissolved	0.15	U * ^	0.40	0.15	ug/L		10/04/16 13:00	10/05/16 18:37	1
Cadmium, Dissolved	0.043	U	0.50	0.043	ug/L		10/04/16 13:00	10/05/16 18:37	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		10/04/16 13:00	10/05/16 18:37	1
Cobalt, Dissolved	0.27	J	0.40	0.12	ug/L		10/04/16 13:00	10/05/16 18:37	1
Copper, Dissolved	1.2	J	5.0	0.50	ug/L		10/04/16 13:00	10/05/16 18:37	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		10/04/16 13:00	10/05/16 18:37	1
Manganese, Dissolved	14		2.5	1.2	ug/L		10/11/16 13:38	10/14/16 08:37	1
Molybdenum, Dissolved	1.1		1.0	0.45	ug/L		10/04/16 13:00	10/05/16 18:37	1
Nickel, Dissolved	0.88	J	5.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:37	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		10/04/16 13:00	10/05/16 18:37	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		10/04/16 13:00	10/05/16 18:37	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		10/04/16 13:00	10/05/16 18:37	1
Vanadium, Dissolved	0.36	J	1.0	0.30	ug/L		10/04/16 13:00	10/05/16 18:37	1
Zinc, Dissolved	6.2	J	20	2.8	ug/L		10/04/16 13:00	10/05/16 18:37	1
Aluminum, Dissolved	32		10	4.6	ug/L		10/04/16 13:00	10/05/16 18:37	1

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	190		3.3	3.3	mg/L		10/17/16 14:09		1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-022_093016

Lab Sample ID: 680-130404-5

Matrix: Water

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:27	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1.5		1.0	0.50	mg/L			10/04/16 19:05	1
Analyte									
Alkalinity	100		5.0	5.0	mg/L			10/04/16 18:53	1
Total Suspended Solids	42		4.0	4.0	mg/L			10/04/16 07:56	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.0		1.0	0.50	mg/L			10/11/16 13:37	1

Client Sample ID: ADW-022_SED_093016

Lab Sample ID: 680-130404-6

Matrix: Solid

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Percent Solids: 79.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500		21	3.3	mg/Kg	✉	10/03/16 13:42	10/04/16 18:20	1
Calcium	6000		53	5.5	mg/Kg	✉	10/03/16 13:42	10/04/16 18:20	1
Iron	12000		21	5.6	mg/Kg	✉	10/03/16 13:42	10/04/16 18:20	1
Magnesium	1900		53	9.4	mg/Kg	✉	10/03/16 13:42	10/04/16 18:20	1
Potassium	960		110	2.6	mg/Kg	✉	10/03/16 13:42	10/04/16 18:20	1
Sodium	290		210	50	mg/Kg	✉	10/03/16 13:42	10/04/16 18:20	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.25	J	1.1	0.11	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Arsenic	4.7		0.32	0.11	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Barium	190		0.53	0.063	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Beryllium	0.50		0.053	0.016	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Cadmium	0.51		0.053	0.016	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Chromium	4.0	B	1.1	0.12	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Cobalt	5.4		0.053	0.011	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Copper	21		0.53	0.14	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Lead	51		0.21	0.053	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Manganese	730		1.1	0.13	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Molybdenum	1.1		1.1	0.084	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Nickel	5.3		1.1	0.27	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Selenium	3.1		0.53	0.11	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Silver	0.33		0.11	0.011	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Thallium	0.093	J	0.11	0.053	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Vanadium	16	B	0.53	0.28	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1
Zinc	240		2.1	1.1	mg/Kg	✉	10/04/16 13:24	10/06/16 03:37	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-022_SED_093016

Lab Sample ID: 680-130404-6

Date Collected: 09/30/16 08:30

Matrix: Solid

Date Received: 10/03/16 09:59

Percent Solids: 79.9

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0089	U	0.022	0.0089	mg/Kg	1	10/03/16 14:13	10/04/16 11:57	1

Client Sample ID: GKM05_093016

Lab Sample ID: 680-130404-7

Date Collected: 09/30/16 16:15

Matrix: Water

Date Received: 10/03/16 09:59

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	200		200	24	ug/L	1	10/04/16 13:00	10/05/16 17:36	1
Calcium	59000		500	25	ug/L	1	10/04/16 13:00	10/05/16 17:36	1
Iron	260		50	17	ug/L	1	10/04/16 13:00	10/05/16 17:36	1
Magnesium	7800		500	33	ug/L	1	10/04/16 13:00	10/05/16 17:36	1
Potassium	2400		1000	17	ug/L	1	10/04/16 13:00	10/05/16 17:36	1
Sodium	11000		1000	480	ug/L	1	10/04/16 13:00	10/05/16 17:36	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	39	J	200	24	ug/L	1	10/04/16 13:00	10/05/16 18:07	1
Calcium, Dissolved	58000		500	25	ug/L	1	10/04/16 13:00	10/05/16 18:07	1
Iron, Dissolved	17	U	50	17	ug/L	1	10/04/16 13:00	10/05/16 18:07	1
Magnesium, Dissolved	7700		500	33	ug/L	1	10/04/16 13:00	10/05/16 18:07	1
Potassium, Dissolved	2400		1000	17	ug/L	1	10/04/16 13:00	10/05/16 18:07	1
Sodium, Dissolved	11000		1000	480	ug/L	1	10/04/16 13:00	10/05/16 18:07	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Arsenic	0.43	J	1.0	0.37	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Barium	40		2.0	0.14	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Beryllium	0.15	U * ^	0.40	0.15	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Cadmium	0.043	U	0.50	0.043	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Chromium	1.0	U	2.0	1.0	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Cobalt	0.30	J	0.40	0.12	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Copper	2.1	J	5.0	0.50	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Lead	1.4		0.30	0.060	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Manganese	110		2.5	1.2	ug/L	1	10/11/16 13:38	10/14/16 08:25	1
Molybdenum	0.71	J	1.0	0.45	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Nickel	1.1	J	5.0	0.40	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Selenium	0.58	U	2.0	0.58	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Silver	0.10	U	1.0	0.10	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Thallium	0.10	U	0.20	0.10	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Vanadium	0.30	U	1.0	0.30	ug/L	1	10/04/16 13:00	10/05/16 18:29	1
Zinc	48		20	2.8	ug/L	1	10/04/16 13:00	10/05/16 18:29	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L	1	10/04/16 13:00	10/05/16 18:53	1
Arsenic, Dissolved	0.68	J	1.0	0.37	ug/L	1	10/04/16 13:00	10/05/16 18:53	1
Barium, Dissolved	42		2.0	0.14	ug/L	1	10/04/16 13:00	10/05/16 18:53	1
Beryllium, Dissolved	0.15	U * ^	0.40	0.15	ug/L	1	10/04/16 13:00	10/05/16 18:53	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: GKM05_093016

Lab Sample ID: 680-130404-7

Matrix: Water

Date Collected: 09/30/16 16:15
Date Received: 10/03/16 09:59

Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium, Dissolved	0.043	U	0.50	0.043	ug/L		10/04/16 13:00	10/05/16 18:53	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		10/04/16 13:00	10/05/16 18:53	1
Cobalt, Dissolved	0.20	J	0.40	0.12	ug/L		10/04/16 13:00	10/05/16 18:53	1
Copper, Dissolved	1.9	J	5.0	0.50	ug/L		10/04/16 13:00	10/05/16 18:53	1
Lead, Dissolved	0.10	J	0.30	0.060	ug/L		10/04/16 13:00	10/05/16 18:53	1
Manganese, Dissolved	56		2.5	1.2	ug/L		10/11/16 13:38	10/14/16 08:41	1
Molybdenum, Dissolved	0.77	J	1.0	0.45	ug/L		10/04/16 13:00	10/05/16 18:53	1
Nickel, Dissolved	2.1	J	5.0	0.40	ug/L		10/04/16 13:00	10/05/16 18:53	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		10/04/16 13:00	10/05/16 18:53	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		10/04/16 13:00	10/05/16 18:53	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		10/04/16 13:00	10/05/16 18:53	1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L		10/04/16 13:00	10/05/16 18:53	1
Zinc, Dissolved	30		20	2.8	ug/L		10/04/16 13:00	10/05/16 18:53	1

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	180		3.3	3.3	mg/L			10/17/16 14:09	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:31	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.95	J	1.0	0.50	mg/L			10/04/16 19:49	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	79		5.0	5.0	mg/L			10/04/16 18:46	1

Total Suspended Solids

4.0 U 4.0 4.0 mg/L 10/04/16 07:56 1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	2.2		1.0	0.50	mg/L			10/11/16 13:53	1

Client Sample ID: GKM05_SED_093016

Lab Sample ID: 680-130404-8

Date Collected: 09/30/16 16:15

Matrix: Solid

Date Received: 10/03/16 09:59

Percent Solids: 74.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6500		24	3.7	mg/Kg	✉	10/03/16 13:42	10/04/16 18:25	1
Calcium	4900		60	6.2	mg/Kg	✉	10/03/16 13:42	10/04/16 18:25	1
Iron	24000		24	6.4	mg/Kg	✉	10/03/16 13:42	10/04/16 18:25	1
Magnesium	3500		60	11	mg/Kg	✉	10/03/16 13:42	10/04/16 18:25	1
Potassium	1000		120	3.0	mg/Kg	✉	10/03/16 13:42	10/04/16 18:25	1
Sodium	58	U	240	58	mg/Kg	✉	10/03/16 13:42	10/04/16 18:25	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: GKM05_SED_093016

Lab Sample ID: 680-130404-8

Date Collected: 09/30/16 16:15

Matrix: Solid

Date Received: 10/03/16 09:59

Percent Solids: 74.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.0	J	1.2	0.12	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Arsenic	10		0.36	0.12	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Barium	130		0.60	0.072	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Beryllium	0.56		0.060	0.018	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Cadmium	2.4		0.060	0.018	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Chromium	11	B	1.2	0.13	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Cobalt	10		0.060	0.012	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Copper	89		0.60	0.16	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Lead	210		0.24	0.060	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Manganese	2100		12	1.4	mg/Kg	⊗	10/04/16 13:24	10/06/16 08:21	10
Molybdenum	2.5		1.2	0.096	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Nickel	9.3		1.2	0.31	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Selenium	3.6		0.60	0.12	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Silver	1.1		0.12	0.012	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Thallium	0.13		0.12	0.060	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Vanadium	35	B	0.60	0.32	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1
Zinc	800		2.4	1.2	mg/Kg	⊗	10/04/16 13:24	10/06/16 03:42	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.024	0.0098	mg/Kg	⊗	10/03/16 14:13	10/04/16 12:02	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-452228/1-A

Matrix: Water

Analysis Batch: 452561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452228

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	24	U	200	24	ug/L		10/04/16 13:00	10/05/16 16:23	1
Aluminum, Dissolved	24	U	200	24	ug/L		10/04/16 13:00	10/05/16 16:23	1
Calcium	25	U	500	25	ug/L		10/04/16 13:00	10/05/16 16:23	1
Calcium, Dissolved	25	U	500	25	ug/L		10/04/16 13:00	10/05/16 16:23	1
Iron	17	U	50	17	ug/L		10/04/16 13:00	10/05/16 16:23	1
Iron, Dissolved	17	U	50	17	ug/L		10/04/16 13:00	10/05/16 16:23	1
Magnesium	33	U	500	33	ug/L		10/04/16 13:00	10/05/16 16:23	1
Magnesium, Dissolved	33	U	500	33	ug/L		10/04/16 13:00	10/05/16 16:23	1
Potassium	17	U	1000	17	ug/L		10/04/16 13:00	10/05/16 16:23	1
Potassium, Dissolved	17	U	1000	17	ug/L		10/04/16 13:00	10/05/16 16:23	1
Sodium	480	U	1000	480	ug/L		10/04/16 13:00	10/05/16 16:23	1
Sodium, Dissolved	480	U	1000	480	ug/L		10/04/16 13:00	10/05/16 16:23	1

Lab Sample ID: LCS 680-452228/2-A

Matrix: Water

Analysis Batch: 452561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452228

Analyte	Spike	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
Aluminum	2000	2090		ug/L	104	85 - 115
Aluminum, Dissolved	2000	2090		ug/L	104	85 - 115
Calcium	2000	2070		ug/L	103	85 - 115
Calcium, Dissolved	2000	2070		ug/L	103	85 - 115
Iron	2000	2060		ug/L	103	85 - 115
Iron, Dissolved	2000	2060		ug/L	103	85 - 115
Magnesium	2000	2050		ug/L	102	85 - 115
Magnesium, Dissolved	2000	2050		ug/L	102	85 - 115
Potassium	2000	2240		ug/L	112	85 - 115
Potassium, Dissolved	2000	2240		ug/L	112	85 - 115
Sodium	2000	1930		ug/L	97	85 - 115
Sodium, Dissolved	2000	1930		ug/L	97	85 - 115

Lab Sample ID: 680-130404-1 MS

Matrix: Water

Analysis Batch: 452561

Client Sample ID: ADW-010_100116

Prep Type: Total/NA

Prep Batch: 452228

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Aluminum	800	F1	2000	3220		ug/L	121	75 - 125
Aluminum, Dissolved	800	F1	2000	3220		ug/L	121	75 - 125
Calcium	67000		2000	70700	4	ug/L	173	75 - 125
Calcium, Dissolved	67000		2000	70700	4	ug/L	173	75 - 125
Iron	700		2000	2980		ug/L	114	75 - 125
Iron, Dissolved	700		2000	2980		ug/L	114	75 - 125
Magnesium	9800		2000	12100	4	ug/L	118	75 - 125
Magnesium, Dissolved	9800		2000	12100	4	ug/L	118	75 - 125
Potassium	2800		2000	5220		ug/L	123	75 - 125
Potassium, Dissolved	2800		2000	5220		ug/L	123	75 - 125
Sodium	17000		2000	19500	4	ug/L	118	75 - 125
Sodium, Dissolved	17000		2000	19500	4	ug/L	118	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 680-130404-1 MSD

Matrix: Water

Analysis Batch: 452561

Client Sample ID: ADW-010_100116

Prep Type: Total/NA

Prep Batch: 452228

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aluminum	800	F1	2000	3430	F1	ug/L	131	75 - 125	6	20	
Aluminum, Dissolved	800	F1	2000	3430	F1	ug/L	131	75 - 125	6	20	
Calcium	67000		2000	70500	4	ug/L	167	75 - 125	0	20	
Calcium, Dissolved	67000		2000	70500	4	ug/L	167	75 - 125	0	20	
Iron	700		2000	3150		ug/L	123	75 - 125	6	20	
Iron, Dissolved	700		2000	3150		ug/L	123	75 - 125	6	20	
Magnesium	9800		2000	12100	4	ug/L	118	75 - 125	0	20	
Magnesium, Dissolved	9800		2000	12100	4	ug/L	118	75 - 125	0	20	
Potassium	2800		2000	5240		ug/L	124	75 - 125	0	20	
Potassium, Dissolved	2800		2000	5240		ug/L	124	75 - 125	0	20	
Sodium	17000		2000	19500	4	ug/L	117	75 - 125	0	20	
Sodium, Dissolved	17000		2000	19500	4	ug/L	117	75 - 125	0	20	

Lab Sample ID: 680-130404-3 MS

Matrix: Water

Analysis Batch: 452561

Client Sample ID: ADW-021_100116

Prep Type: Total/NA

Prep Batch: 452228

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aluminum	730		2000	2830		ug/L	105	75 - 125			
Aluminum, Dissolved	730		2000	2830		ug/L	105	75 - 125			
Calcium	65000		2000	65900	4	ug/L	33	75 - 125			
Calcium, Dissolved	65000		2000	65900	4	ug/L	33	75 - 125			
Iron	650		2000	2670		ug/L	101	75 - 125			
Iron, Dissolved	650		2000	2670		ug/L	101	75 - 125			
Magnesium	9700		2000	11500	4	ug/L	93	75 - 125			
Magnesium, Dissolved	9700		2000	11500	4	ug/L	93	75 - 125			
Potassium	2700		2000	5010		ug/L	113	75 - 125			
Potassium, Dissolved	2700		2000	5010		ug/L	113	75 - 125			
Sodium	16000		2000	17300	4	ug/L	86	75 - 125			
Sodium, Dissolved	16000		2000	17300	4	ug/L	86	75 - 125			

Lab Sample ID: 680-130404-3 MSD

Matrix: Water

Analysis Batch: 452561

Client Sample ID: ADW-021_100116

Prep Type: Total/NA

Prep Batch: 452228

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aluminum	730		2000	3000		ug/L	113	75 - 125	6	20	
Aluminum, Dissolved	730		2000	3000		ug/L	113	75 - 125	6	20	
Calcium	65000		2000	65800	4	ug/L	26	75 - 125	0	20	
Calcium, Dissolved	65000		2000	65800	4	ug/L	26	75 - 125	0	20	
Iron	650		2000	2800		ug/L	107	75 - 125	5	20	
Iron, Dissolved	650		2000	2800		ug/L	107	75 - 125	5	20	
Magnesium	9700		2000	11600	4	ug/L	95	75 - 125	0	20	
Magnesium, Dissolved	9700		2000	11600	4	ug/L	95	75 - 125	0	20	
Potassium	2700		2000	5070		ug/L	116	75 - 125	1	20	
Potassium, Dissolved	2700		2000	5070		ug/L	116	75 - 125	1	20	
Sodium	16000		2000	17300	4	ug/L	86	75 - 125	0	20	
Sodium, Dissolved	16000		2000	17300	4	ug/L	86	75 - 125	0	20	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-452227/1-A

Matrix: Water

Analysis Batch: 452550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452227

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.40	U	1.0	0.40	ug/L				1
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L	10/04/16 13:00	10/05/16 17:48		1
Arsenic	0.37	U	1.0	0.37	ug/L	10/04/16 13:00	10/05/16 17:48		1
Arsenic, Dissolved	0.37	U	1.0	0.37	ug/L	10/04/16 13:00	10/05/16 17:48		1
Barium	0.14	U	2.0	0.14	ug/L	10/04/16 13:00	10/05/16 17:48		1
Barium, Dissolved	0.14	U	2.0	0.14	ug/L	10/04/16 13:00	10/05/16 17:48		1
Beryllium	0.15	U	0.40	0.15	ug/L	10/04/16 13:00	10/05/16 17:48		1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L	10/04/16 13:00	10/05/16 17:48		1
Cadmium	0.043	U	0.50	0.043	ug/L	10/04/16 13:00	10/05/16 17:48		1
Cadmium, Dissolved	0.043	U	0.50	0.043	ug/L	10/04/16 13:00	10/05/16 17:48		1
Chromium	1.0	U	2.0	1.0	ug/L	10/04/16 13:00	10/05/16 17:48		1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L	10/04/16 13:00	10/05/16 17:48		1
Cobalt	0.12	U	0.40	0.12	ug/L	10/04/16 13:00	10/05/16 17:48		1
Cobalt, Dissolved	0.12	U	0.40	0.12	ug/L	10/04/16 13:00	10/05/16 17:48		1
Copper	0.50	U	5.0	0.50	ug/L	10/04/16 13:00	10/05/16 17:48		1
Copper, Dissolved	0.50	U	5.0	0.50	ug/L	10/04/16 13:00	10/05/16 17:48		1
Lead	0.060	U	0.30	0.060	ug/L	10/04/16 13:00	10/05/16 17:48		1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L	10/04/16 13:00	10/05/16 17:48		1
Molybdenum	0.45	U	1.0	0.45	ug/L	10/04/16 13:00	10/05/16 17:48		1
Molybdenum, Dissolved	0.45	U	1.0	0.45	ug/L	10/04/16 13:00	10/05/16 17:48		1
Nickel	0.40	U	5.0	0.40	ug/L	10/04/16 13:00	10/05/16 17:48		1
Nickel, Dissolved	0.40	U	5.0	0.40	ug/L	10/04/16 13:00	10/05/16 17:48		1
Selenium	0.58	U	2.0	0.58	ug/L	10/04/16 13:00	10/05/16 17:48		1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L	10/04/16 13:00	10/05/16 17:48		1
Silver	0.10	U	1.0	0.10	ug/L	10/04/16 13:00	10/05/16 17:48		1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L	10/04/16 13:00	10/05/16 17:48		1
Thallium	0.10	U	0.20	0.10	ug/L	10/04/16 13:00	10/05/16 17:48		1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L	10/04/16 13:00	10/05/16 17:48		1
Vanadium	0.30	U	1.0	0.30	ug/L	10/04/16 13:00	10/05/16 17:48		1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L	10/04/16 13:00	10/05/16 17:48		1
Zinc	2.8	U	20	2.8	ug/L	10/04/16 13:00	10/05/16 17:48		1
Zinc, Dissolved	2.8	U	20	2.8	ug/L	10/04/16 13:00	10/05/16 17:48		1
Aluminum, Dissolved	4.6	U	10	4.6	ug/L	10/04/16 13:00	10/05/16 17:48		1

Lab Sample ID: LCS 680-452227/2-A

Matrix: Water

Analysis Batch: 452550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452227

%Rec.

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
Antimony	20.0	22.5			ug/L	113	85 - 115	
Antimony, Dissolved	20.0	22.5			ug/L	113	85 - 115	
Arsenic	40.0	44.1			ug/L	110	85 - 115	
Arsenic, Dissolved	40.0	44.1			ug/L	110	85 - 115	
Barium	40.0	41.4			ug/L	104	85 - 115	
Barium, Dissolved	40.0	41.4			ug/L	104	85 - 115	
Beryllium	20.0	23.2 *			ug/L	116	85 - 115	
Beryllium, Dissolved	20.0	23.2 *			ug/L	116	85 - 115	
Cadmium	20.0	21.3			ug/L	107	85 - 115	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-452227/2-A

Matrix: Water

Analysis Batch: 452550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452227

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium, Dissolved	20.0	21.3		ug/L	107	85 - 115	
Chromium	40.0	42.2		ug/L	106	85 - 115	
Chromium, Dissolved	40.0	42.2		ug/L	106	85 - 115	
Cobalt	20.0	22.2		ug/L	111	85 - 115	
Cobalt, Dissolved	20.0	22.2		ug/L	111	85 - 115	
Copper	40.0	43.3		ug/L	108	85 - 115	
Copper, Dissolved	40.0	43.3		ug/L	108	85 - 115	
Lead	200	197		ug/L	99	85 - 115	
Lead, Dissolved	200	197		ug/L	99	85 - 115	
Molybdenum	40.0	41.5		ug/L	104	85 - 115	
Molybdenum, Dissolved	40.0	41.5		ug/L	104	85 - 115	
Nickel	40.0	42.2		ug/L	106	85 - 115	
Nickel, Dissolved	40.0	42.2		ug/L	106	85 - 115	
Selenium	40.0	41.0		ug/L	103	85 - 115	
Selenium, Dissolved	40.0	41.0		ug/L	103	85 - 115	
Silver	20.0	22.0		ug/L	110	85 - 115	
Silver, Dissolved	20.0	22.0		ug/L	110	85 - 115	
Thallium	16.0	16.3		ug/L	102	85 - 115	
Thallium, Dissolved	16.0	16.3		ug/L	102	85 - 115	
Vanadium	40.0	40.6		ug/L	101	85 - 115	
Vanadium, Dissolved	40.0	40.6		ug/L	101	85 - 115	
Zinc	40.0	44.0		ug/L	110	85 - 115	
Zinc, Dissolved	40.0	44.0		ug/L	110	85 - 115	
Aluminum, Dissolved	2000	2120		ug/L	106	85 - 115	

Lab Sample ID: 680-130404-1 MS

Matrix: Water

Analysis Batch: 452550

Client Sample ID: ADW-010_100116

Prep Type: Total/NA

Prep Batch: 452227

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.40	U	20.0	21.7		ug/L	109	70 - 130	
Antimony, Dissolved	0.40	U	20.0	21.7		ug/L	109	70 - 130	
Arsenic	0.89	J	40.0	46.0		ug/L	113	70 - 130	
Arsenic, Dissolved	0.89	J	40.0	46.0		ug/L	113	70 - 130	
Barium	87		40.0	132		ug/L	110	70 - 130	
Barium, Dissolved	87		40.0	132		ug/L	110	70 - 130	
Beryllium	0.15	U *	20.0	25.0		ug/L	125	70 - 130	
Beryllium, Dissolved	0.15	U *	20.0	25.0		ug/L	125	70 - 130	
Cadmium	0.043	U	20.0	21.8		ug/L	109	70 - 130	
Cadmium, Dissolved	0.043	U	20.0	21.8		ug/L	109	70 - 130	
Chromium	1.0	U	40.0	42.4		ug/L	106	70 - 130	
Chromium, Dissolved	1.0	U	40.0	42.4		ug/L	106	70 - 130	
Cobalt	0.58		20.0	22.4		ug/L	109	70 - 130	
Cobalt, Dissolved	0.58		20.0	22.4		ug/L	109	70 - 130	
Copper	3.3	J	40.0	44.9		ug/L	104	70 - 130	
Copper, Dissolved	3.3	J	40.0	44.9		ug/L	104	70 - 130	
Lead	2.9		200	207		ug/L	102	70 - 130	
Lead, Dissolved	2.9		200	207		ug/L	102	70 - 130	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-130404-1 MS

Matrix: Water

Analysis Batch: 452550

Client Sample ID: ADW-010_100116

Prep Type: Total/NA

Prep Batch: 452227

%Rec.

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier					
Molybdenum	1.2		40.0	43.7		ug/L	106	70 - 130		
Molybdenum, Dissolved	1.2		40.0	43.7		ug/L	106	70 - 130		
Nickel	1.5 J		40.0	42.6		ug/L	103	70 - 130		
Nickel, Dissolved	1.5 J		40.0	42.6		ug/L	103	70 - 130		
Selenium	0.58 U		40.0	41.5		ug/L	104	70 - 130		
Selenium, Dissolved	0.58 U		40.0	41.5		ug/L	104	70 - 130		
Silver	0.10 U		20.0	22.3		ug/L	112	70 - 130		
Silver, Dissolved	0.10 U		20.0	22.3		ug/L	112	70 - 130		
Thallium	0.10 U		16.0	17.2		ug/L	108	70 - 130		
Thallium, Dissolved	0.10 U		16.0	17.2		ug/L	108	70 - 130		
Vanadium	1.5		40.0	42.4		ug/L	102	70 - 130		
Vanadium, Dissolved	1.5		40.0	42.4		ug/L	102	70 - 130		
Zinc	31		40.0	74.4		ug/L	109	70 - 130		
Zinc, Dissolved	31		40.0	74.4		ug/L	109	70 - 130		
Aluminum, Dissolved	900 F1		2000	3270		ug/L	118	70 - 130		

Lab Sample ID: 680-130404-1 MSD

Matrix: Water

Analysis Batch: 452550

Client Sample ID: ADW-010_100116

Prep Type: Total/NA

Prep Batch: 452227

%Rec.

RPD

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	0.40	U	20.0	21.6		ug/L	108	70 - 130		1	20
Antimony, Dissolved	0.40	U	20.0	21.6		ug/L	108	70 - 130		1	20
Arsenic	0.89 J		40.0	46.2		ug/L	113	70 - 130		0	20
Arsenic, Dissolved	0.89 J		40.0	46.2		ug/L	113	70 - 130		0	20
Barium	87		40.0	134		ug/L	117	70 - 130		2	20
Barium, Dissolved	87		40.0	134		ug/L	117	70 - 130		2	20
Beryllium	0.15 U *		20.0	25.3		ug/L	126	70 - 130		1	20
Beryllium, Dissolved	0.15 U *		20.0	25.3		ug/L	126	70 - 130		1	20
Cadmium	0.043 U		20.0	21.8		ug/L	109	70 - 130		0	20
Cadmium, Dissolved	0.043 U		20.0	21.8		ug/L	109	70 - 130		0	20
Chromium	1.0 U		40.0	42.3		ug/L	106	70 - 130		0	20
Chromium, Dissolved	1.0 U		40.0	42.3		ug/L	106	70 - 130		0	20
Cobalt	0.58		20.0	22.3		ug/L	109	70 - 130		1	20
Cobalt, Dissolved	0.58		20.0	22.3		ug/L	109	70 - 130		1	20
Copper	3.3 J		40.0	44.6		ug/L	103	70 - 130		1	20
Copper, Dissolved	3.3 J		40.0	44.6		ug/L	103	70 - 130		1	20
Lead	2.9		200	206		ug/L	101	70 - 130		0	20
Lead, Dissolved	2.9		200	206		ug/L	101	70 - 130		0	20
Molybdenum	1.2		40.0	43.4		ug/L	106	70 - 130		0	20
Molybdenum, Dissolved	1.2		40.0	43.4		ug/L	106	70 - 130		0	20
Nickel	1.5 J		40.0	42.7		ug/L	103	70 - 130		0	20
Nickel, Dissolved	1.5 J		40.0	42.7		ug/L	103	70 - 130		0	20
Selenium	0.58 U		40.0	42.1		ug/L	105	70 - 130		1	20
Selenium, Dissolved	0.58 U		40.0	42.1		ug/L	105	70 - 130		1	20
Silver	0.10 U		20.0	22.3		ug/L	112	70 - 130		0	20
Silver, Dissolved	0.10 U		20.0	22.3		ug/L	112	70 - 130		0	20
Thallium	0.10 U		16.0	17.2		ug/L	108	70 - 130		0	20

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-130404-1 MSD

Matrix: Water

Analysis Batch: 452550

Client Sample ID: ADW-010_100116

Prep Type: Total/NA

Prep Batch: 452227

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Thallium, Dissolved	0.10	U	16.0	17.2		ug/L	108	70 - 130	0	20	
Vanadium	1.5		40.0	42.6		ug/L	103	70 - 130	0	20	
Vanadium, Dissolved	1.5		40.0	42.6		ug/L	103	70 - 130	0	20	
Zinc	31		40.0	74.1		ug/L	108	70 - 130	0	20	
Zinc, Dissolved	31		40.0	74.1		ug/L	108	70 - 130	0	20	
Aluminum, Dissolved	900	F1	2000	3580	F1	ug/L	134	70 - 130	9	20	

Lab Sample ID: 680-130404-3 MS

Matrix: Water

Analysis Batch: 452550

Client Sample ID: ADW-021_100116

Prep Type: Total/NA

Prep Batch: 452227

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	0.40	U	20.0	22.0		ug/L	110	70 - 130			
Antimony, Dissolved	0.40	U	20.0	22.0		ug/L	110	70 - 130			
Arsenic	1.4		40.0	45.9		ug/L	111	70 - 130			
Arsenic, Dissolved	1.4		40.0	45.9		ug/L	111	70 - 130			
Barium	81		40.0	121		ug/L	101	70 - 130			
Barium, Dissolved	81		40.0	121		ug/L	101	70 - 130			
Beryllium	0.15	U F1 * ^	20.0	25.7	^	ug/L	128	70 - 130			
Beryllium, Dissolved	0.15	U F1 * ^	20.0	25.7	^	ug/L	128	70 - 130			
Cadmium	0.043	U	20.0	21.5		ug/L	107	70 - 130			
Cadmium, Dissolved	0.043	U	20.0	21.5		ug/L	107	70 - 130			
Chromium	1.0	U	40.0	41.7		ug/L	104	70 - 130			
Chromium, Dissolved	1.0	U	40.0	41.7		ug/L	104	70 - 130			
Cobalt	0.48		20.0	21.8		ug/L	107	70 - 130			
Cobalt, Dissolved	0.48		20.0	21.8		ug/L	107	70 - 130			
Copper	2.7	J	40.0	43.8		ug/L	103	70 - 130			
Copper, Dissolved	2.7	J	40.0	43.8		ug/L	103	70 - 130			
Lead	2.3		200	203		ug/L	100	70 - 130			
Lead, Dissolved	2.3		200	203		ug/L	100	70 - 130			
Molybdenum	1.2		40.0	43.3		ug/L	105	70 - 130			
Molybdenum, Dissolved	1.2		40.0	43.3		ug/L	105	70 - 130			
Nickel	1.3	J	40.0	41.9		ug/L	102	70 - 130			
Nickel, Dissolved	1.3	J	40.0	41.9		ug/L	102	70 - 130			
Selenium	0.58	U	40.0	41.5		ug/L	104	70 - 130			
Selenium, Dissolved	0.58	U	40.0	41.5		ug/L	104	70 - 130			
Silver	0.10	U	20.0	21.8		ug/L	109	70 - 130			
Silver, Dissolved	0.10	U	20.0	21.8		ug/L	109	70 - 130			
Thallium	0.10	U	16.0	17.0		ug/L	106	70 - 130			
Thallium, Dissolved	0.10	U	16.0	17.0		ug/L	106	70 - 130			
Vanadium	1.4		40.0	41.6		ug/L	101	70 - 130			
Vanadium, Dissolved	1.4		40.0	41.6		ug/L	101	70 - 130			
Zinc	29		40.0	70.4		ug/L	104	70 - 130			
Zinc, Dissolved	29		40.0	70.4		ug/L	104	70 - 130			
Aluminum, Dissolved	790		2000	2940		ug/L	107	70 - 130			

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-130404-3 MSD

Matrix: Water

Analysis Batch: 452550

Client Sample ID: ADW-021_100116

Prep Type: Total/NA

Prep Batch: 452227

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Antimony	0.40	U	20.0	22.1		ug/L		111	70 - 130	1	20
Antimony, Dissolved	0.40	U	20.0	22.1		ug/L		111	70 - 130	1	20
Arsenic	1.4		40.0	47.0		ug/L		114	70 - 130	2	20
Arsenic, Dissolved	1.4		40.0	47.0		ug/L		114	70 - 130	2	20
Barium	81		40.0	120		ug/L		98	70 - 130	1	20
Barium, Dissolved	81		40.0	120		ug/L		98	70 - 130	1	20
Beryllium	0.15	UF1 * ^	20.0	26.8	F1 ^	ug/L		134	70 - 130	5	20
Beryllium, Dissolved	0.15	UF1 * ^	20.0	26.8	F1 ^	ug/L		134	70 - 130	5	20
Cadmium	0.043	U	20.0	21.6		ug/L		108	70 - 130	1	20
Cadmium, Dissolved	0.043	U	20.0	21.6		ug/L		108	70 - 130	1	20
Chromium	1.0	U	40.0	41.3		ug/L		103	70 - 130	1	20
Chromium, Dissolved	1.0	U	40.0	41.3		ug/L		103	70 - 130	1	20
Cobalt	0.48		20.0	21.7		ug/L		106	70 - 130	1	20
Cobalt, Dissolved	0.48		20.0	21.7		ug/L		106	70 - 130	1	20
Copper	2.7	J	40.0	43.4		ug/L		102	70 - 130	1	20
Copper, Dissolved	2.7	J	40.0	43.4		ug/L		102	70 - 130	1	20
Lead	2.3		200	204		ug/L		101	70 - 130	1	20
Lead, Dissolved	2.3		200	204		ug/L		101	70 - 130	1	20
Molybdenum	1.2		40.0	43.2		ug/L		105	70 - 130	0	20
Molybdenum, Dissolved	1.2		40.0	43.2		ug/L		105	70 - 130	0	20
Nickel	1.3	J	40.0	41.7		ug/L		101	70 - 130	1	20
Nickel, Dissolved	1.3	J	40.0	41.7		ug/L		101	70 - 130	1	20
Selenium	0.58	U	40.0	41.0		ug/L		102	70 - 130	1	20
Selenium, Dissolved	0.58	U	40.0	41.0		ug/L		102	70 - 130	1	20
Silver	0.10	U	20.0	22.1		ug/L		110	70 - 130	1	20
Silver, Dissolved	0.10	U	20.0	22.1		ug/L		110	70 - 130	1	20
Thallium	0.10	U	16.0	17.1		ug/L		107	70 - 130	0	20
Thallium, Dissolved	0.10	U	16.0	17.1		ug/L		107	70 - 130	0	20
Vanadium	1.4		40.0	41.1		ug/L		99	70 - 130	1	20
Vanadium, Dissolved	1.4		40.0	41.1		ug/L		99	70 - 130	1	20
Zinc	29		40.0	70.1		ug/L		104	70 - 130	0	20
Zinc, Dissolved	29		40.0	70.1		ug/L		104	70 - 130	0	20
Aluminum, Dissolved	790		2000	3030		ug/L		112	70 - 130	3	20

Method: 2340B-2011 - Total Hardness (as CaCO₃) by calculation

Lab Sample ID: MB 680-453589/1

Matrix: Water

Analysis Batch: 453589

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Total Hardness	3.3	U			3.3	3.3	mg/L			10/17/16 14:09	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-452619/1-A

Matrix: Water

Analysis Batch: 452780

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452619

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 16:55	1
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		10/11/16 09:19	10/11/16 16:55	1

Lab Sample ID: LCS 680-452619/3-A

Matrix: Water

Analysis Batch: 452780

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452619

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Mercury	2.50	2.59		ug/L		104	85 - 115	
Mercury, Dissolved	2.50	2.59		ug/L		104	85 - 115	

Lab Sample ID: 680-130404-7 MS

Matrix: Water

Analysis Batch: 452780

Client Sample ID: GKM05_093016

Prep Type: Total/NA

Prep Batch: 452619

Analyte	Sample		Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Added	Result	Qualifier			
Mercury	0.080	U	1.00	1.04		ug/L		104	70 - 130
Mercury, Dissolved	0.080	U	1.00	1.04		ug/L		104	70 - 130

Lab Sample ID: 680-130404-7 MSD

Matrix: Water

Analysis Batch: 452780

Client Sample ID: GKM05_093016

Prep Type: Total/NA

Prep Batch: 452619

Analyte	Sample		Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Added	Result	Qualifier					
Mercury	0.080	U	1.00	1.08		ug/L		108	70 - 130	4	20
Mercury, Dissolved	0.080	U	1.00	1.08		ug/L		108	70 - 130	4	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-452068/1-A

Matrix: Solid

Analysis Batch: 452370

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452068

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	3.0	U	19	3.0	mg/Kg		10/03/16 13:42	10/04/16 17:19	1
Calcium	5.0	U	48	5.0	mg/Kg		10/03/16 13:42	10/04/16 17:19	1
Iron	5.0	U	19	5.0	mg/Kg		10/03/16 13:42	10/04/16 17:19	1
Magnesium	8.5	U	48	8.5	mg/Kg		10/03/16 13:42	10/04/16 17:19	1
Potassium	2.4	U	95	2.4	mg/Kg		10/03/16 13:42	10/04/16 17:19	1
Sodium	46	U	190	46	mg/Kg		10/03/16 13:42	10/04/16 17:19	1

Lab Sample ID: LCS 680-452068/2-A

Matrix: Solid

Analysis Batch: 452370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452068

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aluminum	472	496		mg/Kg		105	80 - 120	
Calcium	472	495		mg/Kg		105	80 - 120	
Iron	472	490		mg/Kg		104	80 - 120	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 680-452068/2-A

Matrix: Solid

Analysis Batch: 452370

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452068

%Rec.

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Magnesium	472	490		mg/Kg	104	80 - 120	
Potassium	755	797		mg/Kg	106	80 - 120	
Sodium	472	462		mg/Kg	98	80 - 120	

Lab Sample ID: 680-130404-2 MS

Matrix: Solid

Analysis Batch: 452370

Client Sample ID: ADW-010_SED_100116

Prep Type: Total/NA

Prep Batch: 452068

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aluminum	7300		534	7320	4	mg/Kg	⊗	-0.8	75 - 125
Calcium	5300		534	5300	4	mg/Kg	⊗	-6	75 - 125
Iron	11000		534	10900	4	mg/Kg	⊗	6	75 - 125
Magnesium	1900	F1	534	2310	F1	mg/Kg	⊗	70	75 - 125
Potassium	1100		855	1780		mg/Kg	⊗	81	75 - 125
Sodium	110	J	534	629		mg/Kg	⊗	97	75 - 125

Lab Sample ID: 680-130404-2 MSD

Matrix: Solid

Analysis Batch: 452370

Client Sample ID: ADW-010_SED_100116

Prep Type: Total/NA

Prep Batch: 452068

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Aluminum	7300		543	7180	4	mg/Kg	⊗	-27	75 - 125	2	20
Calcium	5300		543	5370	4	mg/Kg	⊗	7	75 - 125	1	20
Iron	11000		543	11100	4	mg/Kg	⊗	35	75 - 125	1	20
Magnesium	1900	F1	543	2330	F1	mg/Kg	⊗	72	75 - 125	1	20
Potassium	1100		869	1780		mg/Kg	⊗	79	75 - 125	0	20
Sodium	110	J	543	616		mg/Kg	⊗	93	75 - 125	2	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-452231/1-A

Matrix: Solid

Analysis Batch: 452560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452231

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.095	U	0.95	0.095	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Arsenic	0.095	U	0.29	0.095	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Barium	0.057	U	0.48	0.057	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Beryllium	0.014	U	0.048	0.014	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Cadmium	0.014	U	0.048	0.014	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Chromium	0.127	J	0.95	0.10	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Cobalt	0.0095	U	0.048	0.0095	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Copper	0.12	U	0.48	0.12	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Lead	0.048	U	0.19	0.048	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Manganese	0.11	U	0.95	0.11	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Molybdenum	0.076	U	0.95	0.076	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Nickel	0.25	U	0.95	0.25	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Selenium	0.095	U	0.48	0.095	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Silver	0.0095	U	0.095	0.0095	mg/Kg		10/04/16 13:24	10/06/16 02:55	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 680-452231/1-A

Matrix: Solid

Analysis Batch: 452560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452231

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.048	U	0.095	0.048	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Vanadium	0.402	J	0.48	0.26	mg/Kg		10/04/16 13:24	10/06/16 02:55	1
Zinc	0.95	U	1.9	0.95	mg/Kg		10/04/16 13:24	10/06/16 02:55	1

Lab Sample ID: LCS 680-452231/2-A

Matrix: Solid

Analysis Batch: 452560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452231

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	4.72	5.12		mg/Kg		108	75 - 125
Arsenic	9.43	10.2		mg/Kg		108	75 - 125
Barium	9.43	10.3		mg/Kg		109	75 - 125
Beryllium	4.72	5.21		mg/Kg		110	75 - 125
Cadmium	4.72	5.08		mg/Kg		108	75 - 125
Chromium	9.43	10.4		mg/Kg		110	75 - 125
Cobalt	4.72	5.31		mg/Kg		113	75 - 125
Copper	9.43	10.5		mg/Kg		111	75 - 125
Lead	47.2	50.3		mg/Kg		107	75 - 125
Manganese	472	528		mg/Kg		112	75 - 125
Molybdenum	9.43	10.0		mg/Kg		106	75 - 125
Nickel	9.43	10.4		mg/Kg		111	75 - 125
Selenium	9.43	10.1		mg/Kg		107	75 - 125
Silver	4.72	5.25		mg/Kg		111	75 - 125
Thallium	3.77	4.11		mg/Kg		109	75 - 125
Vanadium	9.43	10.1		mg/Kg		107	75 - 125
Zinc	9.43	10.7		mg/Kg		114	75 - 125

Lab Sample ID: 680-130404-2 MS

Matrix: Solid

Analysis Batch: 452560

Client Sample ID: ADW-010_SED_100116

Prep Type: Total/NA

Prep Batch: 452231

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.11	U F1	5.34	3.68	F1	mg/Kg	⊗	69	75 - 125
Arsenic	3.7		10.7	15.3		mg/Kg	⊗	108	75 - 125
Barium	190		10.7	217	4	mg/Kg	⊗	265	75 - 125
Beryllium	0.57		5.34	6.82		mg/Kg	⊗	117	75 - 125
Cadmium	0.14		5.34	6.13		mg/Kg	⊗	112	75 - 125
Chromium	5.1	B	10.7	17.2		mg/Kg	⊗	114	75 - 125
Cobalt	5.0		5.34	10.8		mg/Kg	⊗	109	75 - 125
Copper	11		10.7	22.0		mg/Kg	⊗	105	75 - 125
Lead	11		53.4	67.6		mg/Kg	⊗	106	75 - 125
Manganese	280		534	917		mg/Kg	⊗	119	75 - 125
Molybdenum	0.39	J	10.7	11.5		mg/Kg	⊗	104	75 - 125
Nickel	5.8		10.7	17.6		mg/Kg	⊗	110	75 - 125
Selenium	4.1		10.7	15.3		mg/Kg	⊗	105	75 - 125
Silver	0.046	J	5.34	6.15		mg/Kg	⊗	114	75 - 125
Thallium	0.099	J	4.27	4.82		mg/Kg	⊗	110	75 - 125
Vanadium	14	B	10.7	25.9		mg/Kg	⊗	111	75 - 125
Zinc	53		10.7	60.3	4	mg/Kg	⊗	67	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Lab Sample ID: 680-130404-2 MSD

Matrix: Solid

Analysis Batch: 452560

Client Sample ID: ADW-010_SED_100116

Prep Type: Total/NA

Prep Batch: 452231

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	0.11	U F1	5.43	3.91	F1	mg/Kg	⊗	72	75 - 125	6	20
Arsenic	3.7		10.9	14.8		mg/Kg	⊗	102	75 - 125	3	20
Barium	190		10.9	214	4	mg/Kg	⊗	232	75 - 125	1	20
Beryllium	0.57		5.43	6.65		mg/Kg	⊗	112	75 - 125	3	20
Cadmium	0.14		5.43	6.15		mg/Kg	⊗	111	75 - 125	0	20
Chromium	5.1	B	10.9	16.6		mg/Kg	⊗	106	75 - 125	3	20
Cobalt	5.0		5.43	10.6		mg/Kg	⊗	104	75 - 125	2	20
Copper	11		10.9	21.5		mg/Kg	⊗	99	75 - 125	2	20
Lead	11		54.3	65.8		mg/Kg	⊗	101	75 - 125	3	20
Manganese	280		543	886		mg/Kg	⊗	111	75 - 125	3	20
Molybdenum	0.39	J	10.9	11.4		mg/Kg	⊗	101	75 - 125	1	20
Nickel	5.8		10.9	17.3		mg/Kg	⊗	106	75 - 125	2	20
Selenium	4.1		10.9	15.4		mg/Kg	⊗	103	75 - 125	0	20
Silver	0.046	J	5.43	5.99		mg/Kg	⊗	109	75 - 125	3	20
Thallium	0.099	J	4.35	4.66		mg/Kg	⊗	105	75 - 125	3	20
Vanadium	14	B	10.9	25.3		mg/Kg	⊗	104	75 - 125	2	20
Zinc	53		10.9	61.7	4	mg/Kg	⊗	79	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 680-452097/1-A

Matrix: Solid

Analysis Batch: 452279

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 452097

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0073	U	0.018	0.0073	mg/Kg		10/03/16 14:13	10/04/16 11:21	1

Lab Sample ID: LCS 680-452097/2-A

Matrix: Solid

Analysis Batch: 452279

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 452097

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Mercury	0.223	0.220		mg/Kg	99	80 - 120	

Lab Sample ID: 680-130404-2 MS

Matrix: Solid

Analysis Batch: 452279

Client Sample ID: ADW-010_SED_100116

Prep Type: Total/NA

Prep Batch: 452097

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.0089	U	0.116	0.139		mg/Kg	⊗	120	80 - 120		

Lab Sample ID: 680-130404-2 MSD

Matrix: Solid

Analysis Batch: 452279

Client Sample ID: ADW-010_SED_100116

Prep Type: Total/NA

Prep Batch: 452097

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	0.0089	U	0.106	0.127		mg/Kg	⊗	120	80 - 120	9	20

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 2320B-2011 - Alkalinity, Total

Lab Sample ID: MB 680-452316/7

Matrix: Water

Analysis Batch: 452316

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	5.0	U	5.0	5.0	mg/L	-		10/04/16 16:53	1

Lab Sample ID: LCS 680-452316/8

Matrix: Water

Analysis Batch: 452316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Alkalinity	250	234		mg/L	-	94	80 - 120

Lab Sample ID: LCSD 680-452316/33

Matrix: Water

Analysis Batch: 452316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Alkalinity	250	236		mg/L	-	94	80 - 120	1

Method: 2540 D-2011 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 680-452159/1

Matrix: Water

Analysis Batch: 452159

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L	-		10/04/16 07:56	1

Lab Sample ID: LCS 680-452159/2

Matrix: Water

Analysis Batch: 452159

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Total Suspended Solids	20.0	20.5		mg/L	-	103	80 - 120

Lab Sample ID: LCSD 680-452159/3

Matrix: Water

Analysis Batch: 452159

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Total Suspended Solids	20.0	18.5		mg/L	-	93	80 - 120	10

Method: 5310 B-2011 - Organic Carbon, Total (TOC)

Lab Sample ID: MB 680-452338/2

Matrix: Water

Analysis Batch: 452338

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	0.50	U	1.0	0.50	mg/L	-		10/04/16 15:27	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Method: 5310 B-2011 - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 680-452338/4

Matrix: Water

Analysis Batch: 452338

**Client Sample ID: Lab Control Sample
Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	%Rec. Limits
Total Organic Carbon	20.0	20.3		mg/L		102	80 - 120

Lab Sample ID: LCSD 680-452338/5

Matrix: Water

Analysis Batch: 452338

**Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Total Organic Carbon	20.0	20.1		mg/L		101	80 - 120	1	25

Method: 5310 B-2011 - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 680-452873/2

Matrix: Water

Analysis Batch: 452873

**Client Sample ID: Method Blank
Prep Type: Dissolved**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	0.50	U	1.0	0.50	mg/L			10/11/16 09:46	1

Lab Sample ID: LCS 680-452873/4

Matrix: Water

Analysis Batch: 452873

**Client Sample ID: Lab Control Sample
Prep Type: Dissolved**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	%Rec. Limits
Dissolved Organic Carbon	20.0	21.4		mg/L		107	80 - 120

Lab Sample ID: LCSD 680-452873/5

Matrix: Water

Analysis Batch: 452873

**Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Dissolved Organic Carbon	20.0	21.2		mg/L		106	80 - 120	1	20

Lab Sample ID: 680-130404-1 MS

Matrix: Water

Analysis Batch: 452873

**Client Sample ID: ADW-010_100116
Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	%Rec. Limits
Dissolved Organic Carbon	2.0		20.0	23.0		mg/L		105	80 - 120

Lab Sample ID: 680-130404-1 MSD

Matrix: Water

Analysis Batch: 452873

**Client Sample ID: ADW-010_100116
Prep Type: Dissolved**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Dissolved Organic Carbon	2.0		20.0	23.0		mg/L		105	80 - 120	0	20

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Metals

Prep Batch: 452068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	3050B	5
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	3050B	5
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	3050B	5
680-130404-8	GKM05_SED_093016	Total/NA	Solid	3050B	6
MB 680-452068/1-A	Method Blank	Total/NA	Solid	3050B	6
LCS 680-452068/2-A	Lab Control Sample	Total/NA	Solid	3050B	7
680-130404-2 MS	ADW-010_SED_100116	Total/NA	Solid	3050B	8
680-130404-2 MSD	ADW-010_SED_100116	Total/NA	Solid	3050B	8

Prep Batch: 452097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	7471A	10
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	7471A	10
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	7471A	10
680-130404-8	GKM05_SED_093016	Total/NA	Solid	7471A	11
MB 680-452097/1-A	Method Blank	Total/NA	Solid	7471A	11
LCS 680-452097/2-A	Lab Control Sample	Total/NA	Solid	7471A	11
680-130404-2 MS	ADW-010_SED_100116	Total/NA	Solid	7471A	11
680-130404-2 MSD	ADW-010_SED_100116	Total/NA	Solid	7471A	11

Prep Batch: 452227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	200	
680-130404-1	ADW-010_100116	Total/NA	Water	200	
680-130404-3	ADW-021_100116	Dissolved	Water	200	
680-130404-3	ADW-021_100116	Total/NA	Water	200	
680-130404-5	ADW-022_093016	Dissolved	Water	200	
680-130404-5	ADW-022_093016	Total/NA	Water	200	
680-130404-7	GKM05_093016	Dissolved	Water	200	
680-130404-7	GKM05_093016	Total/NA	Water	200	
MB 680-452227/1-A	Method Blank	Total/NA	Water	200	
LCS 680-452227/2-A	Lab Control Sample	Total/NA	Water	200	
680-130404-1 MS	ADW-010_100116	Total/NA	Water	200	
680-130404-1 MSD	ADW-010_100116	Total/NA	Water	200	
680-130404-3 MS	ADW-021_100116	Total/NA	Water	200	
680-130404-3 MSD	ADW-021_100116	Total/NA	Water	200	

Prep Batch: 452228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	200	
680-130404-1	ADW-010_100116	Total/NA	Water	200	
680-130404-3	ADW-021_100116	Dissolved	Water	200	
680-130404-3	ADW-021_100116	Total/NA	Water	200	
680-130404-5	ADW-022_093016	Dissolved	Water	200	
680-130404-5	ADW-022_093016	Total/NA	Water	200	
680-130404-7	GKM05_093016	Dissolved	Water	200	
680-130404-7	GKM05_093016	Total/NA	Water	200	
MB 680-452228/1-A	Method Blank	Total/NA	Water	200	
LCS 680-452228/2-A	Lab Control Sample	Total/NA	Water	200	
680-130404-1 MS	ADW-010_100116	Total/NA	Water	200	
680-130404-1 MSD	ADW-010_100116	Total/NA	Water	200	

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Metals (Continued)

Prep Batch: 452228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-3 MS	ADW-021_100116	Total/NA	Water	200	
680-130404-3 MSD	ADW-021_100116	Total/NA	Water	200	

Prep Batch: 452231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	3050B	
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	3050B	
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	3050B	
680-130404-8	GKM05_SED_093016	Total/NA	Solid	3050B	
MB 680-452231/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 680-452231/2-A	Lab Control Sample	Total/NA	Solid	3050B	
680-130404-2 MS	ADW-010_SED_100116	Total/NA	Solid	3050B	
680-130404-2 MSD	ADW-010_SED_100116	Total/NA	Solid	3050B	

Analysis Batch: 452279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	7471A	452097
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	7471A	452097
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	7471A	452097
680-130404-8	GKM05_SED_093016	Total/NA	Solid	7471A	452097
MB 680-452097/1-A	Method Blank	Total/NA	Solid	7471A	452097
LCS 680-452097/2-A	Lab Control Sample	Total/NA	Solid	7471A	452097
680-130404-2 MS	ADW-010_SED_100116	Total/NA	Solid	7471A	452097
680-130404-2 MSD	ADW-010_SED_100116	Total/NA	Solid	7471A	452097

Analysis Batch: 452370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	6010C	452068
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	6010C	452068
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	6010C	452068
680-130404-8	GKM05_SED_093016	Total/NA	Solid	6010C	452068
MB 680-452068/1-A	Method Blank	Total/NA	Solid	6010C	452068
LCS 680-452068/2-A	Lab Control Sample	Total/NA	Solid	6010C	452068
680-130404-2 MS	ADW-010_SED_100116	Total/NA	Solid	6010C	452068
680-130404-2 MSD	ADW-010_SED_100116	Total/NA	Solid	6010C	452068

Analysis Batch: 452550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	200.8	452227
680-130404-1	ADW-010_100116	Total/NA	Water	200.8	452227
680-130404-3	ADW-021_100116	Dissolved	Water	200.8	452227
680-130404-3	ADW-021_100116	Total/NA	Water	200.8	452227
680-130404-5	ADW-022_093016	Dissolved	Water	200.8	452227
680-130404-5	ADW-022_093016	Total/NA	Water	200.8	452227
680-130404-7	GKM05_093016	Dissolved	Water	200.8	452227
680-130404-7	GKM05_093016	Total/NA	Water	200.8	452227
MB 680-452227/1-A	Method Blank	Total/NA	Water	200.8	452227
LCS 680-452227/2-A	Lab Control Sample	Total/NA	Water	200.8	452227
680-130404-1 MS	ADW-010_100116	Total/NA	Water	200.8	452227
680-130404-1 MSD	ADW-010_100116	Total/NA	Water	200.8	452227
680-130404-3 MS	ADW-021_100116	Total/NA	Water	200.8	452227

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Metals (Continued)

Analysis Batch: 452550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-3 MSD	ADW-021_100116	Total/NA	Water	200.8	452227

Analysis Batch: 452560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	6020A	452231
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	6020A	452231
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	6020A	452231
680-130404-8	GKM05_SED_093016	Total/NA	Solid	6020A	452231
680-130404-8	GKM05_SED_093016	Total/NA	Solid	6020A	452231
MB 680-452231/1-A	Method Blank	Total/NA	Solid	6020A	452231
LCS 680-452231/2-A	Lab Control Sample	Total/NA	Solid	6020A	452231
680-130404-2 MS	ADW-010_SED_100116	Total/NA	Solid	6020A	452231
680-130404-2 MSD	ADW-010_SED_100116	Total/NA	Solid	6020A	452231

Analysis Batch: 452561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	200.7 Rev 4.4	452228
680-130404-1	ADW-010_100116	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-3	ADW-021_100116	Dissolved	Water	200.7 Rev 4.4	452228
680-130404-3	ADW-021_100116	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-5	ADW-022_093016	Dissolved	Water	200.7 Rev 4.4	452228
680-130404-5	ADW-022_093016	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-7	GKM05_093016	Dissolved	Water	200.7 Rev 4.4	452228
680-130404-7	GKM05_093016	Total/NA	Water	200.7 Rev 4.4	452228
MB 680-452228/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	452228
LCS 680-452228/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-1 MS	ADW-010_100116	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-1 MSD	ADW-010_100116	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-3 MS	ADW-021_100116	Total/NA	Water	200.7 Rev 4.4	452228
680-130404-3 MSD	ADW-021_100116	Total/NA	Water	200.7 Rev 4.4	452228

Prep Batch: 452619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	245.1	
680-130404-1	ADW-010_100116	Total/NA	Water	245.1	
680-130404-3	ADW-021_100116	Dissolved	Water	245.1	
680-130404-3	ADW-021_100116	Total/NA	Water	245.1	
680-130404-5	ADW-022_093016	Dissolved	Water	245.1	
680-130404-5	ADW-022_093016	Total/NA	Water	245.1	
680-130404-7	GKM05_093016	Dissolved	Water	245.1	
680-130404-7	GKM05_093016	Total/NA	Water	245.1	
MB 680-452619/1-A	Method Blank	Total/NA	Water	245.1	
LCS 680-452619/3-A	Lab Control Sample	Total/NA	Water	245.1	
680-130404-7 MS	GKM05_093016	Total/NA	Water	245.1	
680-130404-7 MSD	GKM05_093016	Total/NA	Water	245.1	

Prep Batch: 452699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	200	
680-130404-1	ADW-010_100116	Total/NA	Water	200	
680-130404-3	ADW-021_100116	Dissolved	Water	200	

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Metals (Continued)

Prep Batch: 452699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-3	ADW-021_100116	Total/NA	Water	200	
680-130404-5	ADW-022_093016	Dissolved	Water	200	
680-130404-5	ADW-022_093016	Total/NA	Water	200	
680-130404-7	GKM05_093016	Dissolved	Water	200	
680-130404-7	GKM05_093016	Total/NA	Water	200	

Analysis Batch: 452780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	245.1	452619
680-130404-1	ADW-010_100116	Total/NA	Water	245.1	452619
680-130404-3	ADW-021_100116	Dissolved	Water	245.1	452619
680-130404-3	ADW-021_100116	Total/NA	Water	245.1	452619
680-130404-5	ADW-022_093016	Dissolved	Water	245.1	452619
680-130404-5	ADW-022_093016	Total/NA	Water	245.1	452619
680-130404-7	GKM05_093016	Dissolved	Water	245.1	452619
680-130404-7	GKM05_093016	Total/NA	Water	245.1	452619
MB 680-452619/1-A	Method Blank	Total/NA	Water	245.1	452619
LCS 680-452619/3-A	Lab Control Sample	Total/NA	Water	245.1	452619
680-130404-7 MS	GKM05_093016	Total/NA	Water	245.1	452619
680-130404-7 MSD	GKM05_093016	Total/NA	Water	245.1	452619

Analysis Batch: 453328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	200.8	452699
680-130404-1	ADW-010_100116	Total/NA	Water	200.8	452699
680-130404-3	ADW-021_100116	Dissolved	Water	200.8	452699
680-130404-3	ADW-021_100116	Total/NA	Water	200.8	452699
680-130404-5	ADW-022_093016	Dissolved	Water	200.8	452699
680-130404-5	ADW-022_093016	Total/NA	Water	200.8	452699
680-130404-7	GKM05_093016	Dissolved	Water	200.8	452699
680-130404-7	GKM05_093016	Total/NA	Water	200.8	452699

Analysis Batch: 453589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Total/NA	Water	2340B-2011	
680-130404-3	ADW-021_100116	Total/NA	Water	2340B-2011	
680-130404-5	ADW-022_093016	Total/NA	Water	2340B-2011	
680-130404-7	GKM05_093016	Total/NA	Water	2340B-2011	
MB 680-453589/1	Method Blank	Total/NA	Water	2340B-2011	

General Chemistry

Analysis Batch: 452159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Total/NA	Water	2540 D-2011	
680-130404-3	ADW-021_100116	Total/NA	Water	2540 D-2011	
680-130404-5	ADW-022_093016	Total/NA	Water	2540 D-2011	
680-130404-7	GKM05_093016	Total/NA	Water	2540 D-2011	
MB 680-452159/1	Method Blank	Total/NA	Water	2540 D-2011	
LCS 680-452159/2	Lab Control Sample	Total/NA	Water	2540 D-2011	

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

General Chemistry (Continued)

Analysis Batch: 452159 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-452159/3	Lab Control Sample Dup	Total/NA	Water	2540 D-2011	

Analysis Batch: 452278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-2	ADW-010_SED_100116	Total/NA	Solid	Moisture	
680-130404-4	ADW-021_SED_100116	Total/NA	Solid	Moisture	
680-130404-6	ADW-022_SED_093016	Total/NA	Solid	Moisture	
680-130404-8	GKM05_SED_093016	Total/NA	Solid	Moisture	

Analysis Batch: 452316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Total/NA	Water	2320B-2011	
680-130404-3	ADW-021_100116	Total/NA	Water	2320B-2011	
680-130404-5	ADW-022_093016	Total/NA	Water	2320B-2011	
680-130404-7	GKM05_093016	Total/NA	Water	2320B-2011	
MB 680-452316/7	Method Blank	Total/NA	Water	2320B-2011	
LCS 680-452316/8	Lab Control Sample	Total/NA	Water	2320B-2011	
LCSD 680-452316/33	Lab Control Sample Dup	Total/NA	Water	2320B-2011	

Analysis Batch: 452338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Total/NA	Water	5310 B-2011	
680-130404-3	ADW-021_100116	Total/NA	Water	5310 B-2011	
680-130404-5	ADW-022_093016	Total/NA	Water	5310 B-2011	
680-130404-7	GKM05_093016	Total/NA	Water	5310 B-2011	
MB 680-452338/2	Method Blank	Total/NA	Water	5310 B-2011	
LCS 680-452338/4	Lab Control Sample	Total/NA	Water	5310 B-2011	
LCSD 680-452338/5	Lab Control Sample Dup	Total/NA	Water	5310 B-2011	

Analysis Batch: 452873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130404-1	ADW-010_100116	Dissolved	Water	5310 B-2011	
680-130404-3	ADW-021_100116	Dissolved	Water	5310 B-2011	
680-130404-5	ADW-022_093016	Dissolved	Water	5310 B-2011	
680-130404-7	GKM05_093016	Dissolved	Water	5310 B-2011	
MB 680-452873/2	Method Blank	Dissolved	Water	5310 B-2011	
LCS 680-452873/4	Lab Control Sample	Dissolved	Water	5310 B-2011	
LCSD 680-452873/5	Lab Control Sample Dup	Dissolved	Water	5310 B-2011	
680-130404-1 MS	ADW-010_100116	Dissolved	Water	5310 B-2011	
680-130404-1 MSD	ADW-010_100116	Dissolved	Water	5310 B-2011	

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-010_100116

Lab Sample ID: 680-130404-1

Matrix: Water

Date Collected: 10/01/16 09:45

Date Received: 10/03/16 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1			452561	10/05/16 17:41	BCB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1			452561	10/05/16 16:39	BCB	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSC		1			453328	10/14/16 08:29	BWR	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSD		1			452550	10/05/16 18:32	BJB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Total/NA	Analysis	200.8 Instrument ID: ICPMSC		1			453328	10/14/16 08:13	BWR	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.8 Instrument ID: ICPMSD		1			452550	10/05/16 17:55	BJB	TAL SAV
Total/NA	Analysis	2340B-2011 Instrument ID: ICPE		1			453589	10/17/16 14:09	BCB	TAL SAV
Dissolved	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Dissolved	Analysis	245.1 Instrument ID: LEEMAN2		1			452780	10/11/16 17:45	JKL	TAL SAV
Total/NA	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Total/NA	Analysis	245.1 Instrument ID: LEEMAN2		1			452780	10/11/16 17:09	JKL	TAL SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH		1			452316	10/04/16 19:00	JCM	TAL SAV
Total/NA	Analysis	2540 D-2011 Instrument ID: NoEquip		1	250 mL	1000 mL	452159	10/04/16 07:56	JCM	TAL SAV
Dissolved	Analysis	5310 B-2011 Instrument ID: TOC7		1			452873	10/11/16 12:36	KLD	TAL SAV
Total/NA	Analysis	5310 B-2011 Instrument ID: TOC7		1	40 mL	40 mL	452338	10/04/16 18:31	AJO	TAL SAV

Client Sample ID: ADW-010_SED_100116

Lab Sample ID: 680-130404-2

Matrix: Solid

Date Collected: 10/01/16 09:45

Date Received: 10/03/16 09:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture Instrument ID: NOEQUIP		1			452278	10/04/16 16:51	WRB	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-010_SED_100116

Date Collected: 10/01/16 09:45

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-2

Matrix: Solid

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.18 g	100 mL	452068	10/03/16 13:42	CDD	TAL SAV
Total/NA	Analysis	6010C		1			452370	10/04/16 17:40	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	3050B			1.18 g	500 mL	452231	10/04/16 13:24	CDD	TAL SAV
Total/NA	Analysis	6020A		1			452560	10/06/16 03:05	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	7471A			0.57 g	50 mL	452097	10/03/16 14:13	JKL	TAL SAV
Total/NA	Analysis	7471A		1			452279	10/04/16 11:30	JKL	TAL SAV
		Instrument ID: LEEMAN2								

Client Sample ID: ADW-021_100116

Date Collected: 10/01/16 08:15

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4		1			452561	10/05/16 17:46	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1			452561	10/05/16 17:05	BCB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Dissolved	Analysis	200.8		1			453328	10/14/16 08:34	BWR	TAL SAV
		Instrument ID: ICPMSC								
Dissolved	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.8		1			452550	10/05/16 18:34	BJB	TAL SAV
		Instrument ID: ICPMSD								
Total/NA	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Total/NA	Analysis	200.8		1			453328	10/14/16 08:17	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.8		1			452550	10/05/16 18:19	BJB	TAL SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2340B-2011		1			453589	10/17/16 14:09	BCB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Dissolved	Analysis	245.1		1			452780	10/11/16 17:49	JKL	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Total/NA	Analysis	245.1		1			452780	10/11/16 17:22	JKL	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Analysis	2320B-2011		1			452316	10/04/16 19:08	JCM	TAL SAV
		Instrument ID: MANTECH								

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-021_100116

Date Collected: 10/01/16 08:15
Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540 D-2011		1	250 mL	1000 mL	452159	10/04/16 07:56	JCM	TAL SAV
		Instrument ID: NoEquip								
Dissolved	Analysis	5310 B-2011		1			452873	10/11/16 13:21	KLD	TAL SAV
		Instrument ID: TOC7								
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	452338	10/04/16 18:49	AJO	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: ADW-021_SED_100116

Date Collected: 10/01/16 08:15
Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			452278	10/04/16 16:51	WRB	TAL SAV
		Instrument ID: NOEQUIP								

Client Sample ID: ADW-021_SED_100116

Date Collected: 10/01/16 08:15
Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-4

Matrix: Solid

Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.15 g	100 mL	452068	10/03/16 13:42	CDD	TAL SAV
Total/NA	Analysis	6010C		1			452370	10/04/16 18:14	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	3050B			1.15 g	500 mL	452231	10/04/16 13:24	CDD	TAL SAV
Total/NA	Analysis	6020A		1			452560	10/06/16 03:31	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	7471A			0.55 g	50 mL	452097	10/03/16 14:13	JKL	TAL SAV
Total/NA	Analysis	7471A		1			452279	10/04/16 11:53	JKL	TAL SAV
		Instrument ID: LEEMAN2								

Client Sample ID: ADW-022_093016

Date Collected: 09/30/16 08:30
Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4		1			452561	10/05/16 18:02	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1			452561	10/05/16 17:31	BCB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: ADW-022_093016

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	200.8		1			453328	10/14/16 08:37	BWR	TAL SAV
		Instrument ID: ICPMSC								
Dissolved	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.8		1			452550	10/05/16 18:37	BJB	TAL SAV
		Instrument ID: ICPMSD								
Total/NA	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Total/NA	Analysis	200.8		1			453328	10/14/16 08:21	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.8		1			452550	10/05/16 18:27	BJB	TAL SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	2340B-2011		1			453589	10/17/16 14:09	BCB	TAL SAV
		Instrument ID: ICPE								
Dissolved	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Dissolved	Analysis	245.1		1			452780	10/11/16 17:54	JKL	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Total/NA	Analysis	245.1		1			452780	10/11/16 17:27	JKL	TAL SAV
		Instrument ID: LEEMAN2								
Total/NA	Analysis	2320B-2011		1			452316	10/04/16 18:53	JCM	TAL SAV
		Instrument ID: MANTECH								
Total/NA	Analysis	2540 D-2011		1	250 mL	1000 mL	452159	10/04/16 07:56	JCM	TAL SAV
		Instrument ID: NoEquip								
Dissolved	Analysis	5310 B-2011		1			452873	10/11/16 13:37	KLD	TAL SAV
		Instrument ID: TOC7								
Total/NA	Analysis	5310 B-2011		1	40 mL	40 mL	452338	10/04/16 19:05	AJO	TAL SAV
		Instrument ID: TOC7								

Client Sample ID: ADW-022_SED_093016

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			452278	10/04/16 16:51	WRB	TAL SAV
		Instrument ID: NOEQUIP								

Client Sample ID: ADW-022_SED_093016

Date Collected: 09/30/16 08:30

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-6

Matrix: Solid

Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.19 g	100 mL	452068	10/03/16 13:42	CDD	TAL SAV
Total/NA	Analysis	6010C		1			452370	10/04/16 18:20	BCB	TAL SAV
		Instrument ID: ICPE								

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.19 g	500 mL	452231	10/04/16 13:24	CDD	TAL SAV
Total/NA	Analysis	6020A Instrument ID: ICPMSC		1			452560	10/06/16 03:37	BWR	TAL SAV
Total/NA	Prep	7471A			0.56 g	50 mL	452097	10/03/16 14:13	JKL	TAL SAV
Total/NA	Analysis	7471A Instrument ID: LEEMAN2		1			452279	10/04/16 11:57	JKL	TAL SAV

Client Sample ID: GKM05_093016

Date Collected: 09/30/16 16:15

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1			452561	10/05/16 18:07	BCB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	452228	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1			452561	10/05/16 17:36	BCB	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSC		1			453328	10/14/16 08:41	BWR	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSD		1			452550	10/05/16 18:53	BJB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	452699	10/11/16 13:38	AJR	TAL SAV
Total/NA	Analysis	200.8 Instrument ID: ICPMSC		1			453328	10/14/16 08:25	BWR	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	452227	10/04/16 13:00	AJR	TAL SAV
Total/NA	Analysis	200.8 Instrument ID: ICPMSD		1			452550	10/05/16 18:29	BJB	TAL SAV
Total/NA	Analysis	2340B-2011 Instrument ID: ICPE		1			453589	10/17/16 14:09	BCB	TAL SAV
Dissolved	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Dissolved	Analysis	245.1 Instrument ID: LEEMAN2		1			452780	10/11/16 17:58	JKL	TAL SAV
Total/NA	Prep	245.1			50 mL	50 mL	452619	10/11/16 09:19	JKL	TAL SAV
Total/NA	Analysis	245.1 Instrument ID: LEEMAN2		1			452780	10/11/16 17:31	JKL	TAL SAV
Total/NA	Analysis	2320B-2011 Instrument ID: MANTECH		1			452316	10/04/16 18:46	JCM	TAL SAV
Total/NA	Analysis	2540 D-2011 Instrument ID: NoEquip		1	250 mL	1000 mL	452159	10/04/16 07:56	JCM	TAL SAV
Dissolved	Analysis	5310 B-2011 Instrument ID: TOC7		1			452873	10/11/16 13:53	KLD	TAL SAV
Total/NA	Analysis	5310 B-2011 Instrument ID: TOC7		1	40 mL	40 mL	452338	10/04/16 19:49	AJO	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.
Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Client Sample ID: GKM05_SED_093016

Date Collected: 09/30/16 16:15

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			452278	10/04/16 16:51	WRB	TAL SAV
Instrument ID: NOEQUIP										

Client Sample ID: GKM05_SED_093016

Date Collected: 09/30/16 16:15

Date Received: 10/03/16 09:59

Lab Sample ID: 680-130404-8

Matrix: Solid

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.12 g	100 mL	452068	10/03/16 13:42	CDD	TAL SAV
Total/NA	Analysis	6010C		1			452370	10/04/16 18:25	BCB	TAL SAV
Instrument ID: ICPE										
Total/NA	Prep	3050B			1.12 g	500 mL	452231	10/04/16 13:24	CDD	TAL SAV
Total/NA	Analysis	6020A		1			452560	10/06/16 03:42	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	3050B			1.12 g	500 mL	452231	10/04/16 13:24	CDD	TAL SAV
Total/NA	Analysis	6020A		10			452560	10/06/16 08:21	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	7471A			0.55 g	50 mL	452097	10/03/16 14:13	JKL	TAL SAV
Total/NA	Analysis	7471A		1			452279	10/04/16 12:02	JKL	TAL SAV
Instrument ID: LEEMAN2										

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

USEPA
Date Shipped: 10/1/2016
Carrier Name: FedEx

Gold King Mine Long Term Monitoring

Site #: N/A
Contact Name: Jeff Bryniarski
Contact Phone: 708-284-2490

No: 8-100116-113324-0017

Lab: Test America - Savannah
Lab Phone: 912-354-7858

Lab #	Sample #	Analyses	Matrix	Collected	Sample Time	Number Container	Preservative	Lab QC
	ADW-010_100116	Dissolved Metals	Surface Water	10/1/2016	09:45	1	250 mL Poly	HNO3 pH<2
	ADW-010_100116	DOC	Surface Water	10/1/2016	09:45	3	40 mL Amber	H2SO4 pH<2
	ADW-010_100116	Dissolved Aluminum	Surface Water	10/1/2016	09:45	1	250 mL Poly	HNO3 pH<2
	ADW-010_100116	Total Metals+Hardness	Surface Water	10/1/2016	09:45	1	250 mL Poly	HNO3 pH<2
	ADW-010_100116	TOC	Surface Water	10/1/2016	09:45	3	40 mL Amber	H2SO4 pH<2
	ADW-010_100116	TSS	Surface Water	10/1/2016	09:45	1	1 L Poly	None
	ADW-010_100116	Alkalinity	Surface Water	10/1/2016	09:45	1	250 mL	None
	ADW-010_SED_100116	Metals	Sediment	10/1/2016	09:45	1	4 oz glass	None
	ADW-021_100116	Dissolved Metals	Surface Water	10/1/2016	08:15	1	250 mL Poly	HNO3 pH<2
	ADW-021_100116	DOC	Surface Water	10/1/2016	08:15	3	40 mL Amber	H2SO4 pH<2
	ADW-021_100116	Dissolved Aluminum	Surface Water	10/1/2016	08:15	1	250 mL Poly	HNO3 pH<2
	ADW-021_100116	Total Metals+Hardness	Surface Water	10/1/2016	08:15	1	250 mL Poly	HNO3 pH<2
	ADW-021_100116	TOC	Surface Water	10/1/2016	08:15	3	40 mL Amber	H2SO4 pH<2
	ADW-021_100116	TSS	Surface Water	10/1/2016	08:15	1	1 L Poly	None
	ADW-021_100116	Alkalinity	Surface Water	10/1/2016	08:15	1	250 mL	None
	ADW-021_SED_100116	Metals	Sediment	10/1/2016	08:15	1	4 oz glass	None
	ADW-022_093016	Dissolved Metals	Surface Water	9/30/2016	08:30	1	250 mL Poly	HNO3 pH<2
	ADW-022_093016	DOC	Surface Water	9/30/2016	08:30	3	40 mL Amber	H2SO4 pH<2
	ADW-022_093016	Dissolved Aluminum	Surface Water	9/30/2016	08:30	1	250 mL Poly	HNO3 pH<2

Special Instructions: Please send all results to jeff.bryniarski@westonsolutions.com. 10 day turnaround time.		SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #	
---------------------------------------------------------------------------------------------------------------	--	--------------------------------------------------------------	--

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sept 28, 2016		10/1/16 12:00		10/3/16 12:59	
					680-130404 5.8(c)(5)6.7e



680-130404: Chain of Custody

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100

DateShipped: 10/1/2016
CarrierName: FedEx

Gold King Mine | San Juan Monitoring

Site #: N/A
Contact Name: Jeff E.
Contact Phone: 708 2

No: 8-198116-113324-0017

Lab: Test America - Savannah
Lab Phone: 912-354-7858

Lab #	Sample #	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
ADW-022_093016	Total Metals+Hardness	Surface Water	9/30/2016	08:30		1	250 mL Poly	HNO3 pH<2	N
ADW-022_093016	TOC	Surface Water	9/30/2016	08:30		3	40 mL Amber	H2SO4 pH<2	N
ADW-022_093016	TSS	Surface Water	9/30/2016	08:30		1	1L Poly	None	N
ADW-022_093016	Alkalinity	Surface Water	9/30/2016	08:30		1	250 mL	None	N
ADW-022_SED_093016	Metals	Sediment	9/30/2016	08:30		1	4 oz glass	None	N
GKM05_093016	Dissolved Metals	Surface Water	9/30/2016	16:15		1	250 mL Poly	HNO3 pH<2	N
GKM05_093016	DOC	Surface Water	9/30/2016	16:15		3	40 mL Amber	H2SO4 pH<2	N
GKM05_093016	Total Metals+Hardness	Surface Water	9/30/2016	16:15		1	250 mL Poly	HNO3 pH<2	N
GKM05_093016	TOC	Surface Water	9/30/2016	16:15		3	40 mL Amber	H2SO4 pH<2	N
GKM05_093016	TSS	Surface Water	9/30/2016	16:15		1	1L Poly	None	N
GKM05_093016	Alkalinity	Surface Water	9/30/2016	16:15		1	250 mL	None	N
GKM05_SED_093016	Metals	Sediment	9/30/2016	16:15		1	4 oz glass	None	N

Special Instructions: Please send all results to jeff.bryniarski@westonsolutions.com. 10 day turnaround time.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Special Instructions. Please send all results to jeff.bryniarski@westonsolutions.com. 10 day turnaround time.

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
6480-04	J.W. Tamm	10/11/00 12:00	O. W. S.	10-10-03-16	0959
			680-	1304(D4	5.8(CE)5.7

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-130404-1

Login Number: 130404

List Number: 1

Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Weston Solutions, Inc.

Project/Site: GKM - Region 8 (LTM)

TestAmerica Job ID: 680-130404-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Colorado	State Program	8	N/A	12-31-16

1
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